

## SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Dmitry Brant Examiner #: 80189 Date: 7/19/04  
 Art Unit: 2655 Phone Number 305-8954 Serial Number: 09774925  
 Location: 3C16 Results Format Preferred (circle): ☒ PAPER ☒ DISK ☐ E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

\*\*\*\*\*  
 Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Wearable Display System with Indicators of Speakers  
 Inventors (please provide full names): Sara H. Basson, Dimitri Kanevsky

Earliest Priority Filing Date: ~~01/31/01~~ 01/31/01

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Wearable Display system for deaf/disabled people. System locates the speaker in the room and uses <sup>visual</sup> indicators to identify the current speaker to the <sup>user</sup> wearer of the system. System locates <sup>the</sup> speakers using either video camera and/or microphone array.

## STAFF USE ONLY

	Type of Search	Vendors and cost where applicable
Searcher: <u>Pamela Reynolds</u>	NA Sequence (#) _____	STN _____
Searcher Phone #: <u>306-10255</u>	AA Sequence (#) _____	Dialog <input checked="" type="checkbox"/>
Searcher Location: <u>PIC 2303</u>	Structure (#) _____	Questel/Orbit _____
Date Searcher Picked Up: <u>7-20-04 10:30</u>	Bibliographic <input checked="" type="checkbox"/>	Dr.Link _____
Date Completed: <u>7-22-04 10:45</u>	Litigation _____	Lexis/Nexis _____
Searcher Prep & Review Time: <u>149</u>	Fulltext <input checked="" type="checkbox"/>	Sequence Systems _____
Clerical Prep Time: _____	Patent Family _____	WWW/Internet <input checked="" type="checkbox"/>
Online Time: <u>191</u>	Other _____	Other (specify) <input checked="" type="checkbox"/> <u>NTL 1886</u>

File 9:Business & Industry(R) Jul/1994-2004/Jul 21  
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     (c) 2004 The HW Wilson Co.  
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     (c) 2004 United Business Media  
 File 141:Readers Guide 1983-2004/Jun  
     (c) 2004 The HW Wilson Co  
 File 148:Gale Group Trade & Industry DB 1976-2004/Jul 22  
     (c)2004 The Gale Group  
 File 160:Gale Group PROMT(R) 1972-1989  
     (c) 1999 The Gale Group  
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     (c) 2004 The HW Wilson Co  
 File 570:Gale Group MARS(R) 1984-2004/Jul 22  
     (c) 2004 The Gale Group  
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     (c)2004 Knight Ridder/Tribune Bus News  
 File 620:EIU:Viewswire 2004/Jul 21  
     (c) 2004 Economist Intelligence Unit  
 File 613:PR Newswire 1999-2004/Jul 22  
     (c) 2004 PR Newswire Association Inc  
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     (c) 2004 The Gale Group  
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     (c) 2004 The Gale Group  
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     (c) 2004 The Dialog Corp.  
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     (c) 2004 IDG Communications  
 File 810:Business Wire 1986-1999/Feb 28

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File 813:PR Newswire 1987-1999/Apr 30  
(c) 1999 PR Newswire Association Inc  
File 587:Jane's Defense&Aerospace 2004/Jul W2  
(c) 2004 Jane's Information Group

Set	Items	Description
S1	4444939	DISPLAY?? OR SCREEN?? OR VISUAL(3N) (DISPLAY?? OR SCREEN??)
S2	1143	S1(3N)WEARABLE
S3	952	MICROPHONE(3N)ARRAY?
S4	4234345	CAMERA OR VIDEO
S5	28051	FIELD(3N)VUE
S6	192	(FACIAL OR FACE) (3N)FEATURE??(3N) (MOVE OR MOVES OR MOVING - OR MOVEMENT??)
S7	134468	DEAF OR HARD(3N)HEARING OR HEARING(3N)IMPAIR?
S8	2294	(DISABLE? OR DISABILITY) (3N)HEARING OR PHYSICALLY(3N)CHALLENGED(3N)HEARING
S9	3066135	(MARK? OR TARGET? OR POINT? OR INDICAT? OR LOCAT? OR IDENT- I? OR FIND? OR DETERMIN? OR DIRECT?) (3N) (LOCATION OR PLACEMENT OR AREA OR SPACE)
S10	758006	SPEAKER OR (SPEAKING OR TALKING) (3N) (PERSON?? OR INDIVIDUAL- ??)
S11	8997	(CURRENTLY OR PRESENTLY OR DESIGNATED) (3N) (SPEAKING OR TALKING)
S12	4215194	ROOM OR AUDITORIUM OR THEATER OR THEATRE
S13	55173	S1(3N) (TEXT OR WORDS OR TRANSCRIPTION)
S14	133	COMMUNICATION()ASSISTANT
S15	6	AU=(BASSON, S? OR KANEVSKY, D? OR BASSON S? OR KANEVSKY D?)
S16	149255	MICROPHONE? OR MICRO()PHONE?
S17	2	PERSONAL(3N)CAPTIONING(3N)GLASSES
S18	2	RD (unique items)
S19	0	(S7 OR S8) (S)S2
S20	0	(FACE OR FACIAL) (3N)SPEECH(3N)SPEAKER??(7N)TRACK?(5N)CONFERENCE?
S21	14	(GLASSES OR HEAD-MOUNT? OR HEADMOUNT? OR GOGGLE? OR VISOR - OR WEAR?) (3N) (S7 OR S8) (3N)S1
S22	14	S21 NOT S17
S23	0	S22 AND PY=2002:2004
S24	8	RD S22 (unique items)
S25	8	(S7 OR S8) (10N) (S3 OR S16) (S)S4
S26	8	S25 NOT (S21 OR S17)
S27	6	RD S26 (unique items)
S28	425	S4(S)S9(S) (S10 OR S11)
S29	2	S28(S)S5
S30	2	S29 NOT (S25 OR S21 OR S17)
S31	1	RD S30 (unique items)
S32	1	S28(S) (S7 OR S8)
S33	1	S32 NOT (S29 OR S25 OR S21 OR S17)
S34	53	(MARK?? OR TARGET? OR POINT? OR INDICAT? OR LOCAT? OR IDENT- TI? OR FIND? OR DETERMIN? OR DIRECT?) (S) (CURRENTLY OR PRESENT- LY OR DESIGNATED) (3N) (SPEAKING OR TALKING) (S)S12
S35	0	S34 AND (S7 OR S8)
S36	53	S34 NOT (S32 OR S29 OR S25 OR S21 OR S17)
S37	38	RD S36 (unique items)
S38	16	S37 NOT MARKET
S39	26	S37 NOT (DNA OR STOCK()MARKET OR ECONOMY OR IRISH OR JEWISH OR MORTGAGE)
S40	0	S2(S)S3(S)S4
S41	24	S2(S)TEXT
S42	6	S41(S)S4
S43	6	S42 NOT (S34 OR S32 OR S29 OR S25 OR S21 OR S17)

S44

5 RD S43 (unique items)

18/7/1 (Item 1 from file: 635)  
DIALOG(R) File 635:Business Dateline(R)  
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1084487 00-55042

**Voice-activated 'Max' developed to aid disabled**

Lachenauer, Karen

Cincinnati Business Courier (Cincinnati, OH, US), V16 N9 p37

PUBL DATE: 990625

WORD COUNT: 607

DATELINE: Shreve, OH, US, North Central

**TEXT:**

Multimedia Max, an "environmental control system" for the disabled that was developed in Tampa Bay, Fla., is going national. Apt Technologies in Shreve, Ohio, has struck an agreement with Max's producer, Multimedia Designs, to market the system that the paralyzed and other handicapped people can talk to so as to control appliances in their homes.

Max uses speech recognition software to allow owners to tell it to turn on the VCR, close the drapes, turn down the thermostat and dictate and fax letters, among other things.

It can also be programmed to tease. In demonstrations, Max has startled and then tickled many a customer when a demonstrator introduces the customer to Max, saying, "This is the person I was telling you about" - and Max bursts out laughing.

Larry Shirer, president of Apt Technologies, located in north central Ohio between Wooster and Mansfield, said voice-activated systems are the wave of the future. He expects Max to take the company further in reaching a potential market of 1 million people in the United States paralyzed by spinal cord injuries and disease.

The system costs \$8,000 including a computer and last year grossed \$135,000 for Multimedia Designs, with a projected \$200,000 this year, said owner Dan Deignan. He also said that figure could be higher if Apt's planned trade-journal marketing takes off more than expected.

At the same time, Deignan is trying to telescale down the bulkiness - and expense - of a groundbreaking eyeglass device.

Potentially, the **glasses** -- called the **Personal Captioning System** -- could allow the deaf to pull sounds out of the air and convert them to text in front of their eyes.

One day, the innovator hopes, people will know from "PCS" emblems at theaters and city council chambers that captioning is available there.

Deignan is a one-man band: the sole staff of Multimedia Designs, otherwise known as MDi. But he is partnering with others across the country to get some of his ideas for the disabled across.

"Dan needs to be commended," said Rick Offner, director of research at the National Captioning Institute, a nonprofit company in Washington, D.C., that puts captions for the deaf on videotapes.

Offner said Deignan is raising awareness of handicapped people's need for technology.

Deignan - who considers himself more of a systems integrator than an

inventor, bringing together machines and software already there to create new uses - is not the first to develop the glasses.

He is working with Murray Fischer of Morton Grove, Ill., an educator whom he said put together a primitive version of the glasses for a deaf student years ago.

The National Captioning Institute has commissioned a northeastern company to work on similar glasses, and MicroOptical Corp. in Boston made the glasses Deignan is trying to promote for civilian use.

Right now, their price tag is about \$5,000 and there is only one pair that they let Deignan borrow for demonstrations.

But the original impetus for the technology was the military, which wanted its people, such as pilots, to be able to read information while still looking at the task at hand, Offner said.

As proof that the military hardware is viable, especially among the inventive types, students are walking around with mini-computers projecting read-outs onto such glasses at the Massachusetts Institute of Technology, Offner said.

The various companies are working together to make the technology smaller so it can be mass-produced. The hope is that the movie industry will pick up on the glasses and lend them or rent them to moviegoers for, say, \$1 a use. Users could then see the movie's dialogue, somewhat like a personal closed-captioning system.

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18/7/2 (Item 2 from file: 635)

DIALOG(R)File 635:Business Dateline(R)

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1048139 00-12867

**Innovator partners to develop devices for disabled**

Lachenauer, Karen

Tampa Bay Business Journal (Tampa, FL, US), V19 N9 p32

PUBL DATE: 990226

WORD COUNT: 637

DATELINE: Palm Harbor, FL, US, South Atlantic

TEXT:

Multimedia Max, an "environmental control system" for the disabled that was developed locally, is going national.

Apt Technologies in Ohio has struck an agreement with Max's producer, Multimedia Designs in Palm Harbor, to market the system that the paralyzed and other handicapped people can talk to so as to control appliances in their homes.

Max uses speech recognition software to allow owners to tell it to turn on the VCR, close the drapes, turn down the thermostat and dictate and fax letters, among other things.

It can also be programmed to tease. In demonstrations, Max has startled and then tickled many a customer when a demonstrator introduces the customer to Max, saying, "This is the person I was telling you about" - and Max bursts out laughing.

Larry Shirer, president of Apt Technologies in Shreve, Ohio, said

voice-activated systems are the wave of the future. He expects Max to take the company further in reaching a potential market of 1 million people in the United States paralyzed by spinal cord injuries and disease.

The system costs \$8,000 including a computer and last year grossed \$135,000 for Multimedia Designs, with a projected \$200,000 this year, said owner Dan Deignan said - a figure that could be higher if Apt's planned trade journal marketing takes off more than expected.

At the same time, Deignan is trying to telescale down the bulkiness - and expense- of a groundbreaking eyeglass device.

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But the original impetus for the technology was the military, which wanted its people, such as pilots, to be able to read information while still looking at the task at hand, Offner said.

As proof that the military hardware is viable, especially among the inventive type, students are walking around with minicomputers projecting read-outs onto such glasses at the Massachusetts Institute of Technology, Offner said.

The various companies are working together to make the technology smaller so it can be mass-produced. The hope is that the movie industry will pick up on the glasses and lend them or rent them to moviegoers for, say, \$1 a use.

Deignan said that, amazingly, there are the few who even before it has become available are complaining.

Deignan said he has received e-mail messages pleading, "Don't make me wear these stupid glasses, it's hard enough being deaf." But most people are telling him they want the technology and they want the technology now,

he said.

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24/3,K/1 (Item 1 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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06969809 Supplier Number: 58924188 (USE FORMAT 7 FOR FULLTEXT)  
**IBM EEs improve PC access for disabled. (Company Business and Marketing)**  
Costlow, Terry  
Electronic Engineering Times, p161  
Jan 24, 2000  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 1474

... speech recognition is at the point where it does not have to be trained, a **deaf** person could **wear glasses** that **display** the text of what's being said."

One of the keys for these longer-term...

24/3,K/2 (Item 2 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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05901090 Supplier Number: 53113482 (USE FORMAT 7 FOR FULLTEXT)  
**It Just Feels Right. (new 'haptic' I/O technologies ) (Technology Information)**  
Hodges, Mark  
Computer Graphics World, pNA  
Oct 1, 1998  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 4109

... Virtual Technologies' CyberGlove can be adapted so that words typed into a keypad can be **displayed** as tactile signals to a **deaf** or **deaf** /blind person **wearing** the glove.

Researchers are also demonstrating the potential of force feedback to enhance and evaluate...

24/3,K/3 (Item 3 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2004 The Gale Group. All rts. reserv.

03446929 Supplier Number: 44805647  
**Reading the Silver Screen**  
Technology Review, p18  
July, 1994  
Language: English Record Type: Abstract  
Document Type: Magazine/Journal; Trade

ABSTRACT:

...so that patrons wouldn't steal the devices. Three possible technologies were suggested.

Virtual vision **glasses** might allow **deaf** people to see captions projected on the inside of the **goggles** as they lood at the **screen** .

A vacuum-fluorescent display on the back of the theater seat in front of the...

24/3,K/4 (Item 1 from file: 47)

DIALOG(R)File 47:Gale Group Magazine DB(TM)  
(c) 2004 The Gale group. All rts. reserv.

04123839 SUPPLIER NUMBER: 16087036 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Reading the silver screen. (new technology for deaf and hard-of-hearing moviegoers)**

Clark, Joe

Technology Review, v97, n5, p18(2)

July, 1994

ISSN: 0040-1692

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 1095 LINE COUNT: 00084

...ABSTRACT: Accessible Media (NCAM) are testing several new technologies that promises comfortable viewing to deaf and **hard -of- hearing** movigoers. The new technologies, namely the Virtual Vision **glasses** , seatback **display** and rearview display, were the result of the NCAM researchers' tireless efforts in the past...

24/3,K/5 (Item 1 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2004 The Gale Group. All rts. reserv.

13733037 SUPPLIER NUMBER: 77035634 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Front-counter SMARTS.**

McCrea, Bridget

Industrial Distribution, 90, 7, C8

July, 2001

ISSN: 0019-8153

LANGUAGE: English

RECORD TYPE: Fulltext

WORD COUNT: 1632 LINE COUNT: 00130

... is a full display of gloves, flashlights and batteries, and to the right is a **display** of safety **glasses** , **hard** hats, respirators, **hearing** protection and first aid kits.

To say the counter is jam-packed but still appealing...

24/3,K/6 (Item 1 from file: 635)

DIALOG(R)File 635:Business Dateline(R)  
(c) 2004 ProQuest Info&Learning. All rts. reserv.

0374808 93-25677

**Vidiot's delight: Miniature screen in glasses lets you watch television without the set**

Craven, Scott

The Phoenix Gazette (Phoenix, AZ, US) sB p1

PUBL DATE: 930227

WORD COUNT: 698

DATELINE: Redmond, WA, US

TEXT:

...laptop computer.

\*Security systems that will allow guards to check video cameras while on patrol.

\* **Glasses** for the **hearing - impaired** . Really. Voice recognition software will be used to **display** words as they are spoken..

\*Mobile translators. The software not only will be able to...

24/3,K/7 (Item 1 from file: 647)  
DIALOG(R)File 647:CMP Computer Fulltext  
(c) 2004 CMP Media, LLC. All rts. reserv.

01208248 CMP ACCESSION NUMBER: EET20000124S0132  
**IBM EEs improve PC access for disabled**  
Terry Costlow  
ELECTRONIC ENGINEERING TIMES, 2000, n 1097, PG161  
PUBLICATION DATE: 000124  
JOURNAL CODE: EET LANGUAGE: English  
RECORD TYPE: Fulltext  
SECTION HEADING: Times People  
WORD COUNT: 1473

... speech recognition is at the point where it does not have to be trained, a **deaf** person could **wear glasses** that **display** the text of what's being said."

One of the keys for these longer-term...

24/3,K/8 (Item 1 from file: 810)  
DIALOG(R)File 810:Business Wire  
(c) 1999 Business Wire . All rts. reserv.

0338869 BW789

**SPACE STATION: Space Station: What the average person needs to know**

June 9, 1993

Byline: Business Editors/National Editors

...for teaching physics  
-- NASA Intelligent Reading Training System for adult literacy  
-- Visual cues on eye **glasses** for **hearing impaired**  
-- Computer Reader for the blind  
-- Helmet-mounted **visual display** for medical education and doing other tasks remotely in harsh environments

COMMUNICATIONS & INFORMATION SYSTEMS  
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-- Software...  
?

27/3,K/1 (Item 1 from file: 47)  
DIALOG(R)File 47:Gale Group Magazine DB(TM)  
(c) 2004 The Gale group. All rts. reserv.

04564796 SUPPLIER NUMBER: 18432061  
**Industry Resources: 96/97 - Special Issue. (Main List - companies S through Z) (Directory) (Cover Story)**  
TCI, v30, n6, p106(28)  
June-July, 1996  
DOCUMENT TYPE: Directory Cover Story ISSN: 1063-9497 LANGUAGE:  
English RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 29851 LINE COUNT: 02595.

... 00AM - 5:00PM, EST, Mon - Fri  
Specializes in sales, service, and rental of wireless microphones,  
**wireless** intercom, wireless IFB, wireless video **and** systems for hearing  
**impaired**, **hardwired** intercom and 2 way radios. Principal manufacturers  
include Vega, Sony, Lectrosonics, Sennheiser, Comtek, Electro-Voice...

27/3,K/2 (Item 2 from file: 47)  
DIALOG(R)File 47:Gale Group Magazine DB(TM)  
(c) 2004 The Gale group. All rts. reserv.

04270015 SUPPLIER NUMBER: 16997197 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Industry resources. (theatrical equipment and supplies; part 2,**  
**R-T) (Directory)**  
TCI, v29, n6, p117(31)  
June 16, 1995  
DOCUMENT TYPE: Directory ISSN: 1063-9497 LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 27367 LINE COUNT: 02360

... 8:00AM - 5:00PM, EST, Mon - Fri Specializes in sales, service, and  
rental of wireless **microphones**, wireless intercom, wireless IFB, wireless  
**video** and systems for **hearing impaired**, **hard**-wired intercom and  
2-way radios. Principal manufacturers include Vega, Sony, Lectrosonics,  
Sennheiser, Comtek, Electro...

27/3,K/3 (Item 1 from file: 88)  
DIALOG(R)File 88:Gale Group Business A.R.T.S.  
(c) 2004 The Gale Group. All rts. reserv.

06424229 SUPPLIER NUMBER: 99754738  
**Specifications audiovisual.**  
Architecture, 92, 4, 92(1)  
April, 2003  
ISSN: 0746-0554 LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 250 LINE COUNT: 00024

... screen user interface that can control up to five computer devices  
and an electronic document **camera** by Samsung (www.samsung.com), which,  
much like a scanner, captures images, then projects them...

...com) miniature gooseneck microphone is supplemented by a  
speech-reinforcement system that includes a wireless **microphone** system by  
Sennheiser (www.sennheiser.com) and headsets for the **hearing impaired**.  
There ore 16 Tannoy (www.tannoy.com) speakers flush-mounted in the ceiling.  
This room...

27/3,K/4 (Item 1 from file: 141)  
DIALOG(R)File 141:Readers Guide  
(c) 2004 The HW Wilson Co. All rts. reserv.

04018341 H.W. WILSON RECORD NUMBER: BRGA99018341 (USE FORMAT 7 FOR FULLTEXT)

**Higher learning.**

AUGMENTED TITLE: UCLA's Royce Hall restored after 1994 earthquake  
Weathersby, William, Jr  
Entertainment Design (Entertainment Des) v. 33 no3 (Mar. '99) p. 42-5  
WORD COUNT: 3468

(USE FORMAT 7 FOR FULLTEXT)

**TEXT:**

... effects units Oxmoor buffer amplifiers RDL mic preamplifiers BGW power amplifiers Renkus-Heinz loudspeakers Sennheiser **hearing - impaired** system w/headsets Bogen tone generator Shure paging **microphones** Sony CCTV **camera** and monitor Computar variable-focus lens Pelco adjustable **camera** mount Sigma **video** distribution amp and rackmount kit Clear-Com two-channel intercom Middle Atlantic equipment rack, caster...

...sequencer, hallway, and ceiling speakers Littlelite reading lamps Bittree audio patch panels, custom loudspeaker and **video** patchbays, and multitrack plates Bogen in-wall amplifiers and back box Omnimount speaker mounting bracket ...

27/3,K/5 (Item 1 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
(c) 2004 The Gale Group. All rts. reserv.

01629403 SUPPLIER NUMBER: 14792273 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Providing institutional support for educational technologies: a case study.**

(University of Notre Dame facilities planning)

Williams, C. Joseph; Crowell, Charles R.

T H E Journal (Technological Horizons In Education), v21, n4, p114(5)

Nov, 1993

ISSN: 0192-592X

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 2854 LINE COUNT: 00241

... in DeBartolo Hall contains over 800 videotape and videodisc titles and provides individual carrels with **video** players for personal viewing. Small-group viewing rooms accommodating up to six people provide **video** monitors for use with the Media-On-Call system. The Media Resource Center also locates media resources for faculty and supplies items for classroom use such as laser pointers, lavalier **microphones**, and sound-enhancement systems for the **hearing impaired**.

\* Using Computers in DeBartolo Hall

Computerized podia for instructors are provided in nine classrooms in ...

27/3,K/6 (Item 1 from file: 484)  
DIALOG(R)File 484:Periodical Abs Plustext  
(c) 2004 ProQuest. All rts. reserv.

04850161 SUPPLIER NUMBER: 60326570 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**Telepsychiatry: Addressing mental health needs in Georgia**

Vought, Rhonda G; Grigsby, R Kevin; Adams, Laura N; Shevitz, Stewart A  
Community Mental Health Journal (PCMH), v36 n5, p525-536, p.12

Oct 2000

ISSN: 0010-3853 JOURNAL CODE: PCMH

DOCUMENT TYPE: Feature

LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 4343

**TEXT:**

... Encounters have also included persons with a number of communication difficulties such as autism, congenital **hearing impairment**, poststroke aphasia, and dysarthria. System components such as accessory **microphones** and a three-chip **camera** which allows close-up shots for lip reading have allowed the Telepsychiatry Program to accommodate...

?

31/3,K/1 (Item 1 from file: 587)

DIALOG(R)File 587:Jane's Defense&Aerospace

(c) 2004 Jane's Information Group. All rts. reserv.

10927708

Word Count:5947

**Battlefield air operations: weight and time are the main\targets**

INTERNATIONAL DEFENSE REVIEW (IDR) May 1, 2004 v.037 no. 005

Section Heading: FEATURE

By: Mark Hewish

...to the Global

Positioning System (GPS) receiver and computer;

- the FLIR Systems SeeSPOT III thermal **camera** , which uses custom-designed optics so that it can image a 1.06 micron laser...

...running on rugged

Panasonic Toughbook computers. It also included the integration of a microphone and **speaker** into an earplug, which further mitigates the effect of ambient noise and reduced the head...

...eventually having resolutions of at least

800x600 color pixels and able to show full-motion **video** - and wrist-mounted computers with integrated communications facilities.

In the longer term, the equipment, procedures...

...are expected to become

more standardized. These efforts are likely to merge the USMC's

**Target Location** Designation and Hand-off System with TACP-M from 2005-06.

Improved Data Modem

There...

...and RQ-1 Predator unmanned aerial vehicle

(UAV); USN F-14s (where it captures the **video** signal from the Low Altitude Navigation and Targeting Infrared for Night [LANTIRN] targeting pod), F...

...become operational aboard RNoAF F-16s in 2005, will

provide a further augmentation by displaying **target - location** cues on the visor.

ICI has established relationships with companies in more than a dozen...

...to autonomously detect and identify

targets from high altitudes and long ranges, and to generate

**location** information of sufficient precision to meet the needs of 'co-ordinate-seeking' weapons such as...

...imager that doubles the resolution available from earlier

designs, a charge-coupled-device (CCD) television **camera** , a laser spot tracker/rangefinder, an infrared marker, and a laser designator.

The USMC has...

...B-1B bomber.

The Litening ER pods aboard USMC AV-8Bs are equipped with a **video** datalink, using the transmitter and ground station from the Pioneer UAV system, that permits target identification from ranges of up to some 110km. The AV-8B can transmit **video** directly to a ground-based FAC if required, allowing them to confirm that both they...

...array, which is claimed to double the target-recognition and identification ranges; a CCD television **camera** , providing high resolution and greater recognition ranges during daylight operations; a laser that can operate...

...imager operating in the mid-wave infrared band, a dual-mode laser, a CCD television **camera** , and a laser spot tracker and laser marker. The USAF plans to buy up to...

...to the JDAM. After release, the weapon compares this image to that in its sensor **field of view** and guides itself to the point designated in the target scene. The USN plans call...  
?



33/3,K/1 (Item 1 from file: 20)  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2004 The Dialog Corp. All rts. reserv.

31594171

Canada NewsWire summary of releases for Afternoon, Tuesday October 7th 2003

CANADA NEWSWIRE

October 07, 2003

JOURNAL CODE: WCNW LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 3049

... Advisory/Photo Opportunity - The world is yours... for one night only, as Universal Studios Home **Video** Canada invites you to celebrate the 20th anniversary of Scarface (Scarface-20th-Anniver) C8711 - NEW...  
?

39/TI/1 (Item 1 from file: 15)  
DIALOG(R)File 15:(c) 2004 ProQuest Info&Learning. All rts. reserv.

What is a videoconference?

39/TI/2 (Item 2 from file: 15)  
DIALOG(R)File 15:(c) 2004 ProQuest Info&Learning. All rts. reserv.

Conferencing in 20th Century's war zone

39/TI/3 (Item 1 from file: 16)  
DIALOG(R)File 16:(c) 2004 The Gale Group. All rts. reserv.

CALL CENTERS: EMERGENCE OF A NEW INDUSTRY.

39/TI/4 (Item 2 from file: 16)  
DIALOG(R)File 16:(c) 2004 The Gale Group. All rts. reserv.

Woody Allen's 'Sweet and Lowdown' To Be Released By Sony Pictures Classics.

39/TI/5 (Item 1 from file: 20)  
DIALOG(R)File 20:(c) 2004 The Dialog Corp. All rts. reserv.

Poptastic heavyweights ready to battle for central Scotland;Dar ran Gardner  
tunes into Real Radio to hear how the media group i s preparing for the  
fight for airwave supremacy

39/TI/6 (Item 2 from file: 20)  
DIALOG(R)File 20:(c) 2004 The Dialog Corp. All rts. reserv.

Letters to the Editor - Burnley Express

39/TI/7 (Item 3 from file: 20)  
DIALOG(R)File 20:(c) 2004 The Dialog Corp. All rts. reserv.

BRIEFING - ASIA TELECOMMUNICATIONS - NOV 13, 2002

39/TI/8 (Item 4 from file: 20)  
DIALOG(R)File 20:(c) 2004 The Dialog Corp. All rts. reserv.

TELECOM NZ & OPTUS MAY HAVE TO HELP PROP UP SOUTHERN CROSS JV

39/TI/9 (Item 5 from file: 20)  
DIALOG(R)File 20:(c) 2004 The Dialog Corp. All rts. reserv.

Telecom NZ:Southern Cross Cable owners could face support call

39/TI/10 (Item 6 from file: 20)  
DIALOG(R)File 20:(c) 2004 The Dialog Corp. All rts. reserv.

Head-to-head Zena

39/TI/11 (Item 7 from file: 20)  
DIALOG(R)File 20:(c) 2004 The Dialog Corp. All rts. reserv.

GBP60,000 rent shock on disused arts centre  
WHITE ELEPHANT'S COST TO TAX-PAYERS INCREASES FIVE-FOLD

39/TI/12 (Item 1 from file: 47)  
DIALOG(R)File 47:(c) 2004 The Gale group. All rts. reserv.

Emperor of the air. (short story)

39/TI/13 (Item 1 from file: 148)  
DIALOG(R)File 148:(c)2004 The Gale Group. All rts. reserv.

"LIVING IN PARADISE".

39/TI/14 (Item 2 from file: 148)  
DIALOG(R)File 148:(c)2004 The Gale Group. All rts. reserv.

PROMAX promises to please. (PROMAX International and BDA Conference and  
Exposition) (The TV Executive)

39/TI/15 (Item 3 from file: 148)  
DIALOG(R)File 148:(c)2004 The Gale Group. All rts. reserv.

MarkAir emerges from bankruptcy: talks begin with DIA. (Denver  
International Airport)

39/TI/16 (Item 1 from file: 264)  
DIALOG(R)File 264:(c) 2004 The Dialog Corp. All rts. reserv.

SERVICES WORKING ON VERSIONS OF MAIN C2 SYSTEM By Frank Wolfe

39/TI/17 (Item 2 from file: 264)  
DIALOG(R)File 264:(c) 2004 The Dialog Corp. All rts. reserv.

SERVICES WORKING ON VERSIONS OF MAIN COMMAND AND CONTROL SYSTEM

39/TI/18 (Item 3 from file: 264)  
DIALOG(R)File 264:(c) 2004 The Dialog Corp. All rts. reserv.

WILD RIDE FOR SATELLITE STOCKS: JUST THE START OR A SIGN OF EXCESS?

39/TI/19 (Item 1 from file: 608)  
DIALOG(R)File 608:(c)2004 Knight Ridder/Tribune Bus News. All rts. reserv.

Tribe Looks at West Warwick, R.I., Industrial Park as Casino Site

39/TI/20 (Item 2 from file: 608)  
DIALOG(R)File 608:(c)2004 Knight Ridder/Tribune Bus News. All rts. reserv.  
Homebuilders Finding Pet-Unique Specifications More Common

39/TI/21 (Item 3 from file: 608)  
DIALOG(R)File 608:(c)2004 Knight Ridder/Tribune Bus News. All rts. reserv.  
GAZETTE TELEGRAPH, COLORADO SPRINGS, COLO., BUSINESS CALENDAR

39/TI/22 (Item 1 from file: 613)  
DIALOG(R)File 613:(c) 2004 PR Newswire Association Inc. All rts. reserv.  
N-CM 22:51 Hot Wheels(R) Revs Up to Hit the Big Screen

39/TI/23 (Item 2 from file: 613)  
DIALOG(R)File 613:(c) 2004 PR Newswire Association Inc. All rts. reserv.  
Schaeffer's Market Observation Features BAC and BKX

39/TI/24 (Item 1 from file: 635)  
DIALOG(R)File 635:(c) 2004 ProQuest Info&Learning. All rts. reserv.  
VideoServer stakes out its territory at the hub

39/TI/25 (Item 2 from file: 635)  
DIALOG(R)File 635:(c) 2004 ProQuest Info&Learning. All rts. reserv.  
Intercontinental acquires Farmland facilities on Houston Ship Channel

39/TI/26 (Item 1 from file: 636)  
DIALOG(R)File 636:(c) 2004 The Gale Group. All rts. reserv.  
Kevin Comer.  
?

44/3,K/1 (Item 1 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2004 The Gale Group. All rts. reserv.

07402019 Supplier Number: 62194841 (USE FORMAT 7 FOR FULLTEXT)  
**Juggling Act. (project management) (Industry Trend or Event)**  
WATERS, JOHN K.  
Software Magazine, v20, n2, p34  
April, 2000  
Language: English Record Type: Fulltext Abstract  
Document Type: Magazine/Journal; General Trade  
Word Count: 4204

... these projects and the limited resources we had here became intractable."

Microvision's retinal scanning **display** (RSD) is a **wearable** or head-mounted **display** device for looking at computer or **video** information. The idea is to display **text** or graphical information by scanning a beam of colored light directly onto the retina of...

44/3,K/2 (Item 1 from file: 20)  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2004 The Dialog Corp. All rts. reserv.

25600969 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**MicroOptical Appoints Vice President of Sales; Bruce Lampert to Develop a Sales Force and Distributor Network for Industrial Applications of MicroOptical's Eyewear Displays**  
BUSINESS WIRE  
October 21, 2002  
JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 450

...world leader in ophthalmic optical products, MicroOptical is at the forefront of the electronics and **wearable display** industries. MicroOptical's eyewear displays, which represent an ergonomic breakthrough over conventional head-mounted displays...

44/3,K/3 (Item 1 from file: 141)  
DIALOG(R)File 141:Readers Guide  
(c) 2004 The HW Wilson Co. All rts. reserv.

04869488 H.W. WILSON RECORD NUMBER: BRGA02119488 (USE FORMAT 7 FOR FULLTEXT)  
**The Leading Edge of Television News Technology.**  
Pavlik, John V.  
Television Quarterly v. 33 no2/3 (Summer/Fall 2002) p. 19-28  
WORD COUNT: 4744

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

... a set of technologies, including GPS, GIS (geographic information systems, or digital mapping), wireless communications, **wearable** computers and **displays**, and possibly including cameras and microphones for **video** and audio acquisition. Using this combination of technologies, it is possible to embed multimedia presentations...

...the real words. In other words, journalists equipped with mobile augmented reality systems can shoot **video** while simultaneously seeing **text**, graphics or other "virtual" information superimposed in precise locations into the actual environment surrounding them...

44/3,K/4 (Item 1 from file: 635)  
DIALOG(R)File 635:Business Dateline(R)  
(c) 2004 ProQuest Info&Learning. All rts. reserv.

2343359 240123941  
**Big vision for small display**  
Resende, Patricia  
Mass High Tech v20n37 p1  
Sep 16, 2002  
WORD COUNT: 807  
DATELINE: Westwood Massachusetts

TEXT:  
...of a scene from Mission: Impossible.

MicroOptical Corp., a Westwood-based business, has developed a **wearable** computing technology that **displays video** and **text** in or on a pair of glasses, similar to the glasses worn by Tom Cruise...

44/3,K/5 (Item 1 from file: 587)  
DIALOG(R)File 587:Jane's Defense&Aerospace  
(c) 2004 Jane's Information Group. All rts. reserv.

10914205 Word Count:3341  
**Sights and displays: cutting the big picture down to size**  
INTERNATIONAL DEFENSE REVIEW (IDR) FEBRUARY 01, 2003 v.036 no. 002  
Section Heading: FEATURE

...right image separation  
is said to enhance useability further in head-worn applications.

Real-time **video**

eMagin has received a series of Small Business Innovation Research (SBIR) contracts from the US...

...1,024 pixels), that draws less than 400mW of power. It can present real-time **video** with 256 gray shades with a brightness of 200cd/m<sup>2</sup>. Follow-on SBIR contracts...and can be dimmed to minimal levels if required.

Microvision is developing three types of **display : wearable** 'augmented-vision' and 'augmented-reality' designs (the latter providing a three-dimensional stereoscopic effect that...  
...of a 43cm-diagonal screen. This gives the user access to images, maps, charts, diagrams, **text** and other information generated by sources ranging from hand-held or body-worn devices to...

...visualization systems, which can generate complex three-dimensional graphics, two-dimensional imagery and high-resolution **video**; and the company's OpenGL Vizserver 3.0 collaborative software, which allows the products to...

...The  
two companies have demonstrated the use of Nomad in  
teleconferencing, in which it displayed **video** received over a  
wireless link from a central command post and transmitted the output  
from a miniature head-worn **camera** in the opposite direction.

Robotic Vision Systems is promoting homeland-defense applications of  
a mobile...

...be encrypted, or changed to match  
the security level in force. Users equipped with the **wearable**  
**display** can instantly verify the identity of an individual without  
losing visual contact with the person...  
...s compass heading, depth and an artificial horizon  
over the output from its on-board **video camera**. This allows the  
pilot to concentrate on surveillance while simultaneously  
maintaining control of the Nova Ray, eliminating the need for a  
second person to monitor the **video** feed. Additional sensors such as  
sidescan sonar and tracking devices can also be monitored, with...  
?

24/7,K/7 (Item 1 from file: 647)  
DIALOG(R)File 647:CMP Computer Fulltext  
(c) 2004 CMP Media, LLC. All rts. reserv.

01208248 CMP ACCESSION NUMBER: EET20000124S0132

**IBM EEs improve PC access for disabled**

Terry Costlow

ELECTRONIC ENGINEERING TIMES, 2000, n 1097, PG161

PUBLICATION DATE: 000124

JOURNAL CODE: EET LANGUAGE: English

SECTION HEADING: Times People

TEXT:

Advances in interfaces have made it simpler for nearly everyone to use computers over the past several years, and the disabled have benefited from many of the developments. Efforts to make computers and the Internet even more accessible are continuing, helping the handicapped in both their personal lives and the workplace.

In all kinds of research programs within the many operations of IBM, engineers try to figure out how to make computers accessible for those who can't use the interfaces that are already out there. As prices come down on products like PC-oriented cameras, they can be melded with software to create cost-effective data-entry subsystems.

"One of our researchers, Rick Kjeldsen, has developed a suite of tools," said Peter Fairweather, senior manager at IBM's Accessibility Research Institute (Yorktown Heights, N.Y.). "One of them has recently come out through Edmark, an IBM company."

The tools "use computer vision to build an interface for a person without the means to communicate with the computer," he said. "It replaces the switch systems used by many people."

A cerebral palsy victim now might push a button with his head, for example. With the new IBM system, a camera follows small movements, so the user's tender forehead isn't continually pressing the button.

"If you can only move your head and can't speak, you've got to have some sort of typing device," Fairweather said. "We've set up a device so when you move your head in one direction and then back, it will tab to the position you want. Then you move your head to another position to say, yes, that's my choice. That's much better than using a mechanical device, which is awkward, gets out of adjustment and actually hurts after a while."

This system follows the widespread acceptance of screen readers, which let those with visual impairments interact with a graphical user interface. Other data entry systems like speech recognition let others benefit from the explosion in digital technologies.

Now that these technologies have become commonplace for those who need them, IBM is altering the focus of its Special Needs group. In the past, Big Blue has spoken mostly to those with various disabilities. That's a necessity, but the disabled are also a fairly obvious target. Now that those efforts have reached something of a critical mass, the strategy is addressing a group that can provide some big benefits for the disabled.

"One of the things we've switched a bit, after we looked at where IBM's strengths lie, was with our new site and new ad campaign. Now, we're focusing on human-resource executives," said Paul Snayd, program director at IBM Somers (Somers, N.Y.). "Many of them are not aware of the



technology that's there. If they realize there are solutions there, and people with vast amounts of talent, it will help everyone. HR managers will be less reluctant; they'll be more active hiring people with disabilities."

Late last year, IBM's Special Needs Group set up a new Web site: [www.ibm.com/able](http://www.ibm.com/able). It's designed to show HR managers what's available, in hopes that they will be increasingly willing to hire the handicapped as they see more and more of them on the job.

Though HR managers are often crying for employees, observers suggest, some find it easier to shy away from the disabled, partly out of fear of the unknown. One concern has been the cost of providing pricey equipment. Screen readers that tell the visually impaired what's on their display, for example, used to cost more than \$1,000. But it's no longer necessary to spend as much on the interface system as on the computer itself.

"In general, to accommodate a person with disabilities is not expensive," said John Steger, program manager at IBM's Watson Research Center (Yorktown Heights, N.Y.). "Screen readers are only \$200 to \$500. We want HR people to know this."

While saying that some HR managers are reluctant to hire disabled workers, the IBM managers note that those who understand the benefits of hiring them don't really look at the disabled differently than they do other job candidates.

"I don't think HR managers look at the disabled as a way to hire cheaper employees," Snayd said. "We just went through some bidding for a researcher, and one of the top offers went to a gent who had just gotten his Ph.D. He is a blind individual."

The Internet is one of the mainstays of this new marketing thrust, raising other issues. The disabled must be able to navigate in the cyber world, which is using more and more graphics and sounds, and that problem will only get worse.

"With Internet 2's additional capabilities, there will be new challenges," Steger said. "It will carry a lot of multimedia, and that has to be provided for in a number of fashions. The deaf need to 'hear' the audio and blind people need to know what the image is."

On the upside, many of those involved with the many specifications that make up the Internet 2 are also thinking about accessibility. Companies like Sun Microsystems, which has made accessibility a key aspect of Java, are putting in hooks that make it simpler for accessible products to pull data from Web pages.

"IBM is changing its concept," Steger said. "We're no longer looking strictly at assisted technology. The world is smaller now, and we want to put access in all of IBM's products. We have changed the paradigm to drive the entire corporation to consider access in all of our products."

Quick peripheral adds

He said that will sometimes mean putting in software hooks, while other times it will involve hardware hooks. Providing easy ways to add peripherals that meet the needs of people with various disabilities helps keep costs down without blocking the disabled from adapting a system to

their needs.

"Since this directive became official a few months ago, we've gotten calls from developers asking how they can do this," Snayd said. "They aren't saying they can't do this or it's too expensive; they're asking how they can put in the hooks. We aren't trying to force things where they aren't needed. There isn't any need to put a Braille printer on all devices, but we do need people to put in the hooks to add a Braille printer."

All products targeted

On an internal Website, IBM developers can go through a checklist to make sure they have included the necessary features. The response from across IBM's divisions has been positive enough that Snayd feels it won't be much longer before it's a rare product introduction that isn't accessible to everyone.

"We expect that by August of this year, most of our products will be prepared for this. We want all our products to be accessible at that point," Snayd continued.

As these and other changes emerge, researchers note that they don't benefit only the disabled: While curb cuts help those in wheelchairs to cross streets, they also are a boon to bicyclists and skateboarders. Similarly, interfaces with cameras to watch the user may someday become a common interface technology used by the masses. It's already happened.

"One of the reasons speech recognition was developed was for people who can't use their hands," Snayd said. "Now it's become a mainstream product."

Snayd and Steger noted that other techniques might some day reach the mainstream. IBM researchers are exploring techniques that will make it easier for the handicapped to use computers. "We're looking at gesturing technology, which will allow a person with minimal movement to do things. Rolling their finger down a tiny bit will move the cursor down," Snayd said.

"We're also looking at wearable PCs," Steger said. "When speech recognition is at the point where it does not have to be trained, a deaf person could wear glasses that display the text of what's being said."

One of the keys for these longer-term developments is keeping the customer in mind. Many researchers involved in IBM's projects have disabilities, but even the insight they provide often isn't enough. The development engineers often tap IBM experts in certain technologies for help, and they often turn to the disabled for input on their requirements. As always, they're trying to learn how to create the most effective solutions.

"Our core people are not just technologists," Fairweather said. "We are students of disabilities, students of human behavior. We spend a lot of time working with people who are disabled to make sure we're on the right track. It's not an uncommon mistake for a technologist to think he has the solution. But often we can make a mistake, or sometimes we will overlook the benefit of a technology."

"We have made major strides in the past several years, but there's lots more to come," Snayd said.

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... speech recognition is at the point where it does not have to be trained, a **deaf** person could **wear glasses** that **display** the text of what's being said."

One of the keys for these longer-term...  
?

24/7,K/4 (Item 1 from file: 47)  
DIALOG(R)File 47:Gale Group Magazine DB(TM)  
(c) 2004 The Gale group. All rts. reserv.

04123839 SUPPLIER NUMBER: 16087036 (THIS IS THE FULL TEXT)  
**Reading the silver screen. (new technology for deaf and hard-of-hearing moviegoers)**

Clark, Joe  
Technology Review, v97, n5, p18(2)  
July, 1994

TEXT:

A decade's worth of legwork and consciousness-raising sparked by deaf and hard-of-hearing viewers brought captioning to all genres of TV programming, from newscasts to music videos. The campaign has been so successful that, by law, decoders to translate closed-caption signals into words visible onscreen are now built into all U.S. TV sets with screens at least 13 inches in diameter.

But if you have a hearing problem and want to watch the latest Hollywood film at your local cinema, you're out of luck. You're forced to wait for the home video to appear, and even then it might not be captioned.

Researchers at the National Center for Accessible Media (NCAM), a research group at WGBH, the Boston public broadcasting station, are fine-tuning several technologies to break the cinematic sound barrier for deaf and hard-of-hearing moviegoers. In late 1992 NCAM launched its Motion Picture Access Project after receiving countless complaints about uncaptioned first-run films.

The easiest solution would be open captioning, which all viewers would see. But conventional wisdom holds that hearing people resent captions. Witness the reluctance of major studios to release subtitled foreign-language films. Captioning for motion pictures has to be as unobtrusive for hearing moviegoers as it is useful for deaf and hard-of-hearing viewers.

Armed with a small grant from the Department of Education, NCAM engineers spent most of 1993 developing prototype movie-captioning systems. They faced a host of practical constraints, says Larry Goldberg, director of NCAM. First, because each device might be used by thousands of people, it would have to be all but unbreakable and impervious to what the rigorously scientific minds at NCAM call "cooties." It must also work virtually anywhere in an auditorium "so you wouldn't have to have a specialized deaf section in the theater," he explains. Finally, it must be readable, comfortable, easy to use, and above all, cheap enough that stingy theater owners would buy it and sticky-fingered moviegoers wouldn't steal it.

A few months of brainstorming resulted in three trial technologies:

- \* Virtual Vision glasses: Initially developed as a kind of video Walkman for portable TV-watching, the Virtual Vision system includes an oversized pair of eyeglasses and a small liquid crystal display that sits at the very top of the glasses and faces straight down. Captions are created by a computer and sent to the display through cables that tether the glasses to the seat. Through lenses and a mirror, the captions on the display are reflected onto the eyeglasses so that as the wearer looks at the movie screen, the captions seem to float in midair.

- \* A seatback display: This configuration consists of a vacuum-fluorescent display attached to the back of the seat in front of the viewer. The system--familiar from many supermarket cash registers--produces bright green dot-matrix characters that form the caption text by selectively energizing wires treated with a phosphor coating that glows when electrified. Users can adjust the height of the device as they would the head restraint in a car to place it within their visual range, thus avoiding hundreds of double-takes between movie screen and caption display.

\* A rearview display: In this setup, a large light-emitting diode (LED) display located at the rear of the theater displays captions in mirror image. The user sees the display reflected in a clear plexiglas panel mounted on an adjustable stalk attached to the arm of his or her seat while simultaneously watching the movie through the glass.

NCAM ran a field test of these technologies at a 65-seat Boston movie house showing *Sleepless in Seattle* and *In the Line of Fire* in October 1993. Audiences included hearing viewers as well as hard-of-hearing and deaf volunteers "because we wanted to see what hearing people would think if they were going to a theater with these devices around them," Goldberg says.

The systems received mixed reviews. When adjusted properly, the Virtual Vision glasses were highly readable and not distracting to other moviegoers. But the glasses need careful setup because they are designed to project virtual captions for a person's dominant eye. Thus, a person would have to know which eye is dominant and request a left or right-eye version, and theater owners would need stocks of each on hand. Moreover, because the glasses are expensive (retailing for \$700 apiece) and contain high-tech components, they're very much worth stealing.

Wearing the 5-ounce glasses through a two-hour movie also took its toll in simple fatigue, particularly for people who already wear glasses. The cables were another annoyance.

The seatback display was bright and readable. But it blinked and flashed when the captions were changed, which distracted hearing viewers seated nearby.

The rearview display was dirt cheap, low-tech, and easy to use, but not as bright or readable as the other options. It was also difficult to keep the plexiglas aimed at the LED display on the rear wall amid the jostling that occurs in a crowded theater. Still, Al Sonnenstrahl, a deaf person who tried each of the captioning systems, seemed most impressed with this option, finding it flexible enough to move to a comfortable viewing angle and both reflective enough to read the captions at the rear of the theater and transparent enough to see through the captions to the screen.

NCAM plans to conduct larger-scale tests on all three options in the next two years, says Goldberg, before deciding which one to release. In the meantime, researchers are working to improve the technologies. Adaptations to Virtual Vision glasses--such as reducing their weight and eliminating their cables--are unlikely given that they would involve sophisticated, and therefore prohibitively costly, components.

NCAM designers hope to make the seatback display less obtrusive by reducing its size, perhaps to the point of making it portable. They also plan to test a grooved coating for the screen that channels the image to a narrower viewing angle, limiting the sideways spill of light from the display.

For the rearview displays, designers hope to use a brighter LED display on the theater's rear wall. They also want to use a stiffer gooseneck stalk to improve the display's stability.

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Associatio

...ABSTRACT: Accessible Media (NCAM) are testing several new technologies that promises comfortable viewing to deaf and **hard -of- hearing** movigoers. The new technologies, namely the Virtual Vision **glasses** , seatback **display** and rearview display, were the result of the NCAM researchers' tireless efforts in the past...

?

File 1:ERIC 1966-2004/Jun 09  
(c) format only 2004 The Dialog Corporation

Set	Items	Description
S1	12107	DISPLAY?? OR SCREEN?? OR VISUAL(3N) (DISPLAY?? OR SCREEN??)
S2	1	S1 AND WEARABLE
S3	0	MICROPHONE(3N)ARRAY?
S4	11769	CAMERA OR VIDEO
S5	116	FIELD(3N)VUE
S6	35	(FACIAL OR FACE) AND FEATURE?? AND (MOVE OR MOVES OR MOVING)
S7	10691	DEAF OR HARD(3N)HEARING OR HEARING(3N)IMPAIR?
S8	1110	(DISABLE? OR PHYSICALLY(3N)CHALLENGED) AND HEARING
S9	49160	(MARK? OR TARGET? OR POINT? OR INDICAT? OR LOCAT? OR IDENT- I? OR FIND? OR DETERMIN? OR DIRECT?) AND (LOCATION OR PLACEME- NT OR AREA OR SPACE)
S10	3576	SPEAKER OR (SPEAKING OR TALKING) (3N) (PERSON?? OR INDIVIDUAL- ??)
S11	483	(CURRENTLY OR PRESENTLY OR DESIGNATED) AND (SPEAKING OR TA- LKING)
S12	5180	ROOM OR AUDITORIUM
S13	1291	S1 AND (TEXT OR WORDS OR TRANSCRIPTION)
S14	1	COMMUNICATION()ASSISTANT
S15	0	AU=(BASSON, S? OR KANEVSKY, D? OR BASSON S? OR KANEVSKY D?)
S16	210	MICROPHONE? OR MICRO()PHONE?
S17	49160	(S7 OR S9) AND S9
S18	207	S17 AND S10
S19	4	S18 AND S13
S20	4	S19 NOT (S2 OR S14)
S21	4	RD S20 (unique items)
S22	2	S11 AND S10 AND S12
S23	2	S22 NOT (S19 OR S2 OR S14)
S24	2	RD S23 (unique items)
S25	0	S1 AND S4 AND S5 AND S18
S26	0	S1 AND S4 AND S5 AND S17
S27	2	S13 AND EYE AND GLASSES
S28	2	S27 NOT (S22 OR S19 OR S2 OR S14)
S29	2	RD S28 (unique items)
S30	1	S13 AND S10 AND S11
S31	1	S30 NOT (S27 OR S22 OR S19 OR S2 OR S14)
S32	0	S32 NOT ESL

2/3,K/1

DIALOG(R)File 1:ERIC

(c) format only 2004 The Dialog Corporation. All rts. reserv.

00516799 ERIC NO.: ED227645 CLEARINGHOUSE NO.: EC151632

Effects of a **Wearable** , Tactile Aid on Language Comprehension of  
Prelingual Profoundly Deaf Children.

Proctor, Adele

8pp.

August 1982 (19820800)

NOTES: A Workshop Presented at the Second National Child Development  
Conference (Melbourne, Australia, August 1982).

Effects of a **Wearable** , Tactile Aid on Language Comprehension of  
Prelingual Profoundly Deaf Children.

Factors influencing the use of nonacoustic aids (such as **visual  
displays** and tactile devices) with the hearing impaired are reviewed. The  
benefits of tactile devices in...

?

14/3,K/1

DIALOG(R)File 1:ERIC

(c) format only 2004 The Dialog Corporation. All rts. reserv.

00813840 ERIC NO.: EJ462481 CLEARINGHOUSE NO.: EC605531

A Case Study Assessing the Validity of Facilitated Communication.

Hudson, Alan; And Others

Journal of Autism and Developmental Disorders, v23 n1 p165-73 Mar 1993  
1993 (19930000)

...to profoundly retarded was provided questions both independently of  
and in tandem with her facilitated **communication assistant** . It was  
concluded that the subject was not able to communicate using the  
facilitated communication...

?



21/3,K/1

DIALOG(R)File 1:ERIC

(c) format only 2004 The Dialog Corporation. All rts. reserv.

01045747 ERIC NO.: ED425743 CLEARINGHOUSE NO.: IR019302

Internet Relay Chat. ERIC Digest.

Simpson, Carol;

CORP. SOURCE: ERIC Clearinghouse on Information and Technology, Syracuse, NY. (BBB30993)

4pp.

January 1999 (19990100)

SPONSORING AGENCY: Office of Educational Research and Improvement (ED), Washington, DC. (EDD00036)

...potential educational uses of IRC; technological requirements; the organization of IRC; Nets; channels; operators; nicknames; **finding**, joining, or creating a channel; sending private messages; exiting and IRC chat; disadvantages of IRC...

...group of educators taking a class at a university may wish to "hear" a guest "**speaker**" via the Internet. Perhaps a class of elementary students wants to discuss a joint project...

...IRC), the user must have an Internet connection. The connection can be dial-up or **direct**. After the Internet connection is in place, a software package allows users to connect to...

...conversation. Some of the programs support such advanced features as sound files or color coded **text**. Another useful feature, supported by some software programs, is URL "catching." This feature will collect and/or automatically **display** any properly typed URL. This can be especially useful when a user wants to follow...

...chat servers, and each Net is again divided into channels. Choice of a Net will **determine** which channels will be available, but if the user cannot **find** a suitable channel, a new channel can be created. While there may be no modem...

...to bestow op status on other users. In the list of channel members, ops are **indicated** by the @ sign in front of their names. The op is responsible for maintaining order...on the length of the nick, so abbreviations or truncations are common.

HOW DO YOU **FIND**, JOIN, OR CREATE A CHANNEL?

The command "/list" will generate a list of all current...

...messages.

CAN YOU SEND A PRIVATE MESSAGE?

While most IRC messages go to a public **area** where anyone in the channel can view them, it is possible to send messages to...

...so that physical limitations do not stand in the way of communication. Classes in remote **locations**, across town or around the world, can collaborate on joint projects. IRC is more immediate...

21/3,K/2

DIALOG(R)File 1:ERIC

(c) format only 2004 The Dialog Corporation. All rts. reserv.

...MARRIAGE

As we examine how cooperative learning transforms input, output, and context variables in the **direction** of facilitating language acquisition, we conclude: Cooperative learning and the ESL classroom--a natural marriage  
...

21/3,K/3

DIALOG(R)File 1:ERIC

(c) format only 2004 The Dialog Corporation. All rts. reserv.

01045098 ERIC NO.: ED379966 CLEARINGHOUSE NO.: FL800898

ESL Instruction for Learning Disabled Adults. ERIC Digest.

Schwarz, Robin; Burt, Miriam;

CORP. SOURCE: Adjunct ERIC Clearinghouse for ESL Literacy Education, Washington, DC. (BBB31499); National Clearinghouse for ESL Literacy Education, Washington, DC. (BBB31500)

4pp.

January 1995 (19950100)

SPONSORING AGENCY: Office of Educational Research and Improvement (ED), Washington, DC. (EDD00036)

...or multiple skills and sometimes appearing in the second language when not in the first. **Identification** of adult ESL learners as having LD can be stigmatizing, and can be confused with...

...not content, and reinforce main ideas and concepts through rephrasing. Use of technology in this **area** is not well documented. Two programs funded to research assessment and teaching techniques for this...

...due to learning disabilities (Lowry, 1990; Osher & Webb, 1994). An Interagency Committee on Learning Disabilities **identifies** persons of average or above average intelligence who encounter significant difficulties with listening, speaking, reading...

...learning disabilities affect the progress of adults learning English? How can learning disabled adults be **identified** and assessed? What kinds of instructional methods work best with this population? What kind of...

...getting general information about what is said or written through the overall context when specific **words** or concepts are not understood or substituting known **words** for **words** that cause difficulty). However, these strategies may not be available to the learner in the new language (Ganschow & Sparks, 1993; Lowry, 1990).

#### **IDENTIFYING ESL ADULTS WITH LEARNING DISABILITIES**

It is difficult to **determine** how many adult ESL learners have learning disabilities. Estimates of the total U.S. adult...

...is not known, however, if this is true in adult ESL classes. The process of **identifying** anyone--adult, child, native English **speaker**, or ESL learner--as learning disabled can be stigmatizing (McCormick, 1991). Therefore, educators stress weighing the advantages of **identifying** adults as learning disabled (making them eligible for special instruction, resources, and services) against the possible stigma of the label (Lowry, 1990).

Before **identifying** an adult as learning disabled, other reasons for lack of expected progress should be considered...

...the change in alphabet from Arabic to English; his slow reading by the change of **direction** in reading.) In fact, some of the problems of learning disabled language learners may be...

...lack of progress in the second language classroom.

#### ASSESSING THE LEARNER

Using standardized tests to **identify** learning disabilities presents problems: First, instruments designed to diagnose learning disabilities are usually normed on...

...test are not always reliable. Because the concepts and language being tested may have no **direct** translation, the validity of tests translated into the native language is questionable. Second, the tests...

...auditory discrimination exercises assessing the learners ability to distinguish between vowel sounds or between nonsense **words** ) may suggest difficulties the learner could experience with sound-related aspects of the language (Ganschow **words** and make concepts accessible through the use of pictures, charts, maps, timelines, and diagrams.  
6...

...synthesizers and reading machines that allow learners to hear as well as see what is **displayed** on the computer. Also recommended are televisions with closed-caption capabilities and VCR decoding devices that transcribe and project spoken dialogue on the **screen** . (See Parks, 1994, for discussion of the use of VCR decoding devices with adult ESL...

...and narrative case studies of students who do not make expected progress, REEP hopes to **find** a few specific techniques that benefit not only students with learning disabilities, but all students...

...observations by teachers and learning disabilities specialists, and native language writing samples and interviews. Project **findings** suggest that learning disabled adult ESL students benefit most when learning disabilities specialists and ESL...

...with learning disabilities" (pp. 283-322). New York: Springer-Verlag.

Langner, W. (1993, October). New **directions** for teaching adults with learning disabilities. "A.L.L. **Points** Bulletin", pp. 1-3. (Available from the Division of Adult Education and Literacy, Office of...

DESCRIPTORS: Adult Students; Classroom Techniques; Diagnostic Tests; \*English (Second Language); \* **Identification** ; Instructional Materials; Language Teachers; \*Learning Disabilities; \*Literacy Education; Screening Tests; Second Language Instruction; Student Evaluation...

21/3,K/4

DIALOG(R)File 1:ERIC

(c) format only 2004 The Dialog Corporation. All rts. reserv.

00920026 ERIC NO.: ED388265 CLEARINGHOUSE NO.: IR017414

Digital Captioning: Effects of Color-Coding and **Placement** in Synchronized **Text** -Audio Presentations.

King, Cynthia M.; And Others

7pp.

1994 (19940000)

NOTES: In: Educational Multimedia and Hypermedia, 1994. Proceedings of

ED-MEDIA 94--World Conference on Educational Multimedia and Hypermedia  
(Vancouver, British Columbia, Canada, June 25-30, 1994); see IR 017 359.

Digital Captioning: Effects of Color-Coding and **Placement** in Synchronized  
**Text** -Audio Presentations.

...digital media on computers, and discusses the results of a study on color-coding and **placement** of captions. Seventy-two students in the Preparatory Studies Program (PSP) at Gallaudet University (Washington, D.C.) participated in the study (PSP enrolls **deaf** and **hard-of-hearing** students and prepares them for college). A 15-minute segment from a Disney film was...

...in the study. Four versions of digital captions were prepared: (1) captions color-coded for **speaker identification**, centered at the bottom of the **screen**; (2) black and white captions, centered at the bottom of the **screen**; (3) color-coded captions with **placement** dependent on the **location** of the **speaker**; and (4) black and white captions with **placement** dependent on the **speaker's location**. Results indicate that comprehension is higher when captions are color-coded for **speaker identification** than when captions are black and white. There are no significant differences between centered captions and captions with variable **placement** dependent on **location** of the **speaker**. (AEF)  
DESCRIPTORS: Assistive Devices (for Disabled); \*Captions; Case Studies; College Preparation; \*Comprehension; Computer Uses in Education; Films; \***Hearing Impairments**; Higher Education; \*Special Needs Students

?

24/3,K/1

DIALOG(R)File 1:ERIC

(c) format only 2004 The Dialog Corporation. All rts. reserv.

01045422 ERIC NO.: ED402789 CLEARINGHOUSE NO.: FL024354

Proficiency Plus: The Next Step. ERIC Digest.

Kramsch, Claire;

CORP. SOURCE: ERIC Clearinghouse on Languages and Linguistics, Washington, DC. (BBB11020)

4pp.

December 1996 (19961200)

SPONSORING AGENCY: Office of Educational Research and Improvement (ED), Washington, DC. (EDD00036)

...1) a knowledge of the culture and society expected of the outsider by a native **speaker** ...; (2) a knowledge of how to observe and analyze a culture...; and (3) the sociolinguistic...

...personal feeling of solidarity, not a social capacity. When we talk about culture, we are **talking** about the ability to understand and be understood by others as members of a given...

...how to say "I'm sorry" in German. For instance, she would enter the living **room** where the father was sitting, and he would ask her to close the door. As...

...person's feelings or needs. Rather, closing the door behind you when you enter a **room** seemed to be the socially appropriate thing to do in Germany. Thus, a personal expression...one, but rather the near total lack of experience among both teachers and learners for **talking** about talk, and the disciplinary conspiracy of silence surrounding the idea that language actually constitutes...

...cultural awareness of language teachers. A project, sponsored by the European Community organization LINGUA, is **currently** comparing the cultural training of French teachers in England, France, Ireland, Portugal, Spain, and the...

24/3,K/2

DIALOG(R)File 1:ERIC

(c) format only 2004 The Dialog Corporation. All rts. reserv.

00795850 ERIC NO.: ED343414 CLEARINGHOUSE NO.: FL020141

Teaching Spoken English in the Non-Native Context: Considerations for the Materials Writer.

Tay, Mary W. J.

13pp.

1988 (19880000)

NOTES: In: Materials for Language Learning and Teaching. Anthology Series 22; see FL 020 138.

...for elementary and secondary education and considers the strengths and weaknesses of the materials used **currently**. The second section examines three areas in which oral language instruction in Singapore needs improvement...

...on spoken English. They address five primary issues and related concepts: (1) who is the **speaker** for whom the materials are intended? (accent type, age, level of education); (2) what is...

29/3,K/1

DIALOG(R)File 1:ERIC

(c) format only 2004 The Dialog Corporation. All rts. reserv.

01045821 ERIC NO.: ED431555 CLEARINGHOUSE NO.: PS027763

Easing the Teasing: How Parents Can Help Their Children. ERIC Digest.

Freedman, Judy S.;

CORP. SOURCE: ERIC Clearinghouse on Elementary and Early Childhood Education, Champaign, IL. (BBB34257)

3pp.

July 1999 (19990700)

SPONSORING AGENCY: Office of Educational Research and Improvement (ED), Washington, DC. (EDD00036)

...the teased child to think about her positive qualities to counteract the negative remarks.

- \* IGNORE. **Displays** of anger or tears often invite more teasing; therefore, it is often effective for children...

...For

example, a child could say, "I feel upset when you make fun of my **glasses** . I would like you to stop." This strategy generally works better when expressed in a...teach children to help them deal with many situations.

The child should learn to make **eye** contact, speak clearly, and use a polite tone of voice.

- \* VISUALIZATION. Many young children respond well to visualizing

**words** "bouncing off" of them. It provides them with the image of not having to accept...

...child to pretend he has a shield around him that helps the teases and bad **words** bounce off. Again, this technique gives children the message that they can refuse these put...

...is turning the teasing into a compliment.

For example, a child teases another about her **glasses** , "Four eyes, four eyes, you have four eyes." The child being teased could politely respond, "Thanks for noticing

my **glasses** !" The teaser is usually confused, especially when there is not a reaction of anger or...

29/3,K/2

DIALOG(R)File 1:ERIC

(c) format only 2004 The Dialog Corporation. All rts. reserv.

01043914 ERIC NO.: ED282796 CLEARINGHOUSE NO.: SO018090

Teaching about Japan. ERIC Digest No. 38.

Wojtan, Linda S.;

CORP. SOURCE: ERIC Clearinghouse for Social Studies/Social Science Education, Bloomington, IN. (BBB24392)

4pp.

April 1987 (19870400)

SPONSORING AGENCY: Office of Educational Research and Improvement (ED), Washington, DC. (EDD00036)

File 344:Chinese Patents Abs Aug 1985-2004/May  
(c) 2004 European Patent Office  
File 347:JAPIO Nov 1976-2004/Mar(Updated 040708)  
(c) 2004 JPO & JAPIO  
File 350:Derwent WPIX 1963-2004/UD,UM &UP=200446  
(c) 2004 Thomson Derwent

Set	Items	Description
S1	1262399	DISPLAY?? OR SCREEN?? OR VISUAL(3N)(DISPLAY?? OR SCREEN??)
S2	297	S1 AND WEARABLE
S3	364	MICROPHONE(3N)ARRAY?
S4	637594	CAMERA OR VIDEO
S5	12047	FIELD(3N)VIEW
S6	748	(FACIAL OR FACE) AND FEATURE?? AND (MOVE OR MOVES OR MOVING)
S7	2158	DEAF OR HARD(3N)HEARING OR HEARING(3N)IMPAIR?
S8	77	(DISABLE? OR PHYSICALLY(3N)CHALLENGED) AND HEARING
S9	847129	(MARK? OR TARGET? OR POINT? OR INDICAT? OR LOCAT? OR IDENT- I? OR FIND? OR DETERMIN? OR DIRECT?) AND (LOCATION OR PLACEME- NT OR AREA OR SPACE)
S10	63184	SPEAKER OR (SPEAKING OR TALKING)(3N)(PERSON?? OR INDIVIDUAL- ??)
S11	362	(CURRENTLY OR PRESENTLY OR DESIGNATED) AND (SPEAKING OR TALKING)
S12	286088	ROOM OR AUDITORIUM
S13	88966	S1 AND (TEXT OR WORDS OR TRANSCRIPTION)
S14	21	COMMUNICATION()ASSISTANT
S15	99	AU=(BASSON, S? OR KANEVSKY, D? OR BASSON S? OR KANEVSKY D?)
S16	43379	MICROPHONE? OR MICRO()PHONE?
S17	21	(S3 OR S16) AND S4 AND (S7 OR S8)
S18	0	S17 AND (FACE OR FACIAL) AND SPEECH AND SPEAKER?? AND TRACK? K? AND CONFERENCE?
S19	1	S17 AND S12
S20	52526	IC=G10L?
S21	3	S17 AND S20
S22	3	S21 NOT S19
S23	0	S2 AND S5 AND (S7 OR S8)
S24	0	(FACE OR FACIAL) AND SPEECH AND SPEAKER?? AND TRACK? AND C- ONFERENCE?
S25	17	S17 NOT (S19 OR S22)
S26	10	(GLASSES OR HEAD-MOUNT? OR HEADMOUNT? OR GOGGLE? OR VISOR - OR WEAR?) AND (S7 OR S8) AND S1
S27	1	S26 AND S13
S28	2	S10 AND S11 AND S12
S29	2	S28 NOT (S17 OR S19 OR S22 OR S27)
S30	1	S2 AND (S7 OR S8)
S31	1	S30 NOT (S28 OR S17 OR S19 OR S22 OR S27)
S32	60	(EYE(3N)GLASS? OR VISOR OR S2) AND (S10 OR S11)
S33	6	S32 AND S9
S34	6	S33 NOT (S30 OR S28 OR S17 OR S19 OR S22 OR S27)
S35	4	S34 NOT LOUDSPEAKER?
S36	2	S35 NOT (ELECTROENCEPHALOGRAPH OR CAR OR AUTOMOBILE)
S37	0	S5 AND S6 AND (S7 OR S8) AND S12
S38	9	S4 AND S9 AND (SPEAKING OR TALKING)(3N)(PERSON?? OR INDIVID- UAL??)
S39	0	S38 AND (S7 OR S8 OR S20)
S40	2	S38 AND S12
S41	1440	CAMERA AND HEAD(3N)(GEAR OR MOUNT?)
S42	0	S41 AND TRACK? AND PERSON? AND (SPEAKING OR TALKING)
S43	16	S41 AND S12
S44	0	S43 AND (S7 OR S8)

S45	0	S43 AND S6
S46	16	S43 NOT (S33 OR S30 OR S28 OR S17 OR S19 OR S22 OR S27)
S47	0	S15 AND S2
S48	0	S15 AND S6
S49	0	S15 AND WEARABLE()DISPLAY
S50	0	IBM AND WEARABLE()DISPLAY
S51	80	WEARABLE(3N)DISPLAY??
S52	1	S51 AND (S7 OR S8)
S53	0	S52 NOT TACTILE
S54	5	S14 AND (S7 OR S8)



19/3,K/1 (Item 1 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
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012336312 \*\*Image available\*\*  
WPI Acc No: 1999-142419/199912  
XRPX Acc No: N99-103535

Video -assisted teaching aid for hearing - impaired persons -  
transmits lip-reading signals by wireless, enabling speaker to be  
understood despite having unencumbered movement of head and hands

Patent Assignee: LAPALME M (LAPA-I)

Inventor: LAPALME M

Number of Countries: 021 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9856209	A2	19981210	WO 98CA509	A	19980526	199912 B
EP 986803	A2	20000322	EP 98922558	A	19980526	200019
			WO 98CA509	A	19980526	
EP 986803	B1	20020724	EP 98922558	A	19980526	200256
			WO 98CA509	A	19980526	
DE 69806762	E	20020829	DE 606762	A	19980526	200264
			EP 98922558	A	19980526	
			WO 98CA509	A	19980526	
CA 2290437	C	20030916	CA 2290437	A	19980526	200362
			WO 98CA509	A	19980526	

Priority Applications (No Type Date): US 97867024 A 19970602

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
WO 9856209	A2	25	H04R-025/00	
			Designated States (National):	CA JP US
			Designated States (Regional):	AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
EP 986803	A2	E	G09B-021/00	Based on patent WO 9856209
			Designated States (Regional):	BE DE DK FR GB SE
EP 986803	B1	E	G09B-021/00	Based on patent WO 9856209
			Designated States (Regional):	BE DE DK FR GB SE
DE 69806762	E		G09B-021/00	Based on patent EP 986803
				Based on patent WO 9856209
CA 2290437	C	E	H04R-025/00	Based on patent WO 9856209

Video -assisted teaching aid for hearing - impaired persons...

...Abstract (Basic): telephonist-style headset (12), equipped with a  
forwardly-extending arm (40), carrying a miniature TV **camera** (14),  
and optional **microphone** , targeting the speaker's (S) mouth. The  
**camera** feeds a self-powered transmitter (16) for relaying images to  
remotely-located receivers (18), e...

...display them on, e.g. TV/LED/LCD screens (20). Students (H), who may be  
**hearing - impaired** , may observe the speaker's lip signals, even though  
the speaker's mouth may not be clearly visible all the time.  
Alternatively, the **camera** may be displaced backwards over the  
speaker's ear, with a mirror in front of the mouth directing signals  
into the **camera** .

...

...USE/ADVANTAGE - To enable **hearing - impaired** person to lip-read  
speaker at distance within **room** . Speaker has freedom of movement,  
especially of head/hands, using light and unencumbersome apparatus to

22/3,K/1 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

012218716 \*\*Image available\*\*  
WPI Acc No: 1999-024822/199902  
XRPX Acc No: N99-018994

Synthesis method for generating sign language image on video - involves using speech analysis to extract text used to retrieve sign from database and merge sign with video image of speaker  
Patent Assignee: AT & T CORP (AMTT )  
Inventor: HASKELL B G; SWAIN C T; SWAIN C  
Number of Countries: 020 Number of Patents: 003  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9853438	A1	19981126	WO 98US6918	A	19980407	199902 B
US 5890120	A	19990330	US 97858966	A	19970520	199920
EP 920691	A1	19990609	EP 98914574	A	19980407	199927
			WO 98US6918	A	19980407	

Priority Applications (No Type Date): US 97858966 A 19970520  
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 9853438	A1	E	44	G09B-021/00	
				Designated States (National): CA	
				Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE	
EP 920691	A1	E		G09B-021/00	Based on patent WO 9853438
				Designated States (Regional): DE FR GB IT	
US 5890120	A			G09B-021/04	

Synthesis method for generating sign language image on video - ...  
...speech analysis to extract text used to retrieve sign from database and merge sign with video image of speaker  
...Abstract (Basic): The translation system converts speech to video images of sign language for hearing person to deaf person communication. The system has a microphone and camera capturing speech and video of a speaker. The head of the speaker is identified from the video images. The speech input is applied to a speech analyser that outputs text. The system...  
...be added to the image of the speaker. The combined images is transmitted to the deaf recipient...  
...Title Terms: VIDEO ;  
International Patent Class (Additional): G10L-005/00

22/3,K/2 (Item 2 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

010606490 \*\*Image available\*\*  
WPI Acc No: 1996-103443/199611  
XRPX Acc No: N96-086856

News transmission device for hearing impaired person - has signal composition device which superimposes and transmits character signal for broadcast based on output of collation decoder, which synchronises output to news-readers speech

Patent Assignee: NIPPON DENKI ENG KK (NIDE )  
Number of Countries: 001 Number of Patents: 002  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 8009254	A	19960112	JP 94140189	A	19940622	199611 B
JP 3254542	B2	20020212	JP 94140189	A	19940622	200213

Priority Applications (No Type Date): JP 94140189 A 19940622

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 8009254	A		9	H04N-005/278	
JP 3254542	B2		9	H04N-005/278	Previous Publ. patent JP 8009254

**News transmission device for hearing impaired person...**

...Abstract (Basic): data register (5) which records the voice waveform from a lip pattern and from the **microphone** (2) of the **camera** before it is transmitted. The recorded data in the register is recognized by a clause...

...International Patent Class (Additional): **G10L-015/24**

**22/3,K/3 (Item 3 from file: 350)**  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

007295801  
WPI Acc No: 1987-292808/198742  
XRPX Acc No: N87-219163

**Television signal sub-titling device - has speech recognition device feeding character generator adding characters to video signal**  
Patent Assignee: GRUNDIG EMV (GRUG ); GRUNDIG EMV ELEKTRO-MECHANISCHE (GRUG )

Inventor: KONIG W; KOENIG W  
Number of Countries: 006 Number of Patents: 004  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 3612360	A	19871015	DE 3612360	A	19860412	198742 B
EP 241683	A	19871021	EP 87102761	A	19870226	198742
EP 241683	B1	19921202	EP 87102761	A	19870226	199249
DE 3782845	G	19930114	DE 3782845	A	19870226	199303
			EP 87102761	A	19870226	

Priority Applications (No Type Date): DE 3612360 A 19860412

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 3612360	A		4		
EP 241683	A	G			
					Designated States (Regional): CH DE FR GB IT LI
EP 241683	B1	G	6	H04N-005/445	
					Designated States (Regional): CH DE FR GB IT LI
DE 3782845	G			H04N-005/445	Based on patent EP 241683

**... has speech recognition device feeding character generator adding characters to video signal**

...Abstract (Basic): character generator, and thutput of character generator is fed to an adder receiving also the **video** signal...

...A **microphone** circuit may be provided for feeding in the sound signal

input in accordance with a...

...USE - Allows subtitling for **hard -of- hearing** , or for translation of foreign speech...

...Abstract (Equivalent): receiver having a device for subtitling television signals, which has: - a circuit for processing the **video** signal, - a circuit for processing a low-frequency sound signal, - a screen for the visual representation of the **video** signal, characterised in that - the low-frequency sound signal is the sound information accompanying the...

...generator (6); and the output signal of the character generator (6) is inserted into the **video** signal in the adder (7). (Dwg.2/2)

...Title Terms: **VIDEO** ;

International Patent Class (Additional): **G10L-005/02** ...

... **G10L-005/06**

?

25/3,K/1 (Item 1 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2004 JPO & JAPIO. All rts. reserv.

07369493 \*\*Image available\*\*  
VIDEO CAMERA

PUB. NO.: 2002-237991 [JP 2002237991 A]  
PUBLISHED: August 23, 2002 (20020823)  
INVENTOR(s): ABE MASAYOSHI  
APPLICANT(s): SONY CORP  
APPL. NO.: 2001-033351 [JP 200133351]  
FILED: February 09, 2001 (20010209)

VIDEO CAMERA

#### ABSTRACT

PROBLEM TO BE SOLVED: To provide a **video** conference system that enables even a **hard -of- hearing** person participate in **video** conference.

SOLUTION: The **video camera** is provided with an imaging means 11, a signal processing circuit 12 that converts an imaging output from the imaging means 11 into standard **video** signal, **microphones** 21L, 21R that collect utterance of a person uttering, a voice recognition circuit 23 that applies voice recognition to output signals from the **microphones** 21L, 21R for providing an output of a corresponding character code, an encoder circuit that superimposes the character code onto the **video** signal to provide an output, a drive mechanism 41 that revises the direction of the ...

... that discriminates the position of the person uttering from the output signal coming from the **microphones** 21L, 21R and gives the discrimination result to the drive mechanism 41. The control circuit...

25/3,K/2 (Item 2 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2004 JPO & JAPIO. All rts. reserv.

03790274 \*\*Image available\*\*  
AUTOMATIC FINGER LANGUAGE TRANSLATION SYSTEM

PUB. NO.: 04-155374 [JP 4155374 A]  
PUBLISHED: May 28, 1992 (19920528)  
INVENTOR(s): MURATA HIROSHI  
APPLICANT(s): NEC SOFTWARE LTD [491061] (A Japanese Company or Corporation), JP (Japan)  
APPL. NO.: 02-279725 [JP 90279725]  
FILED: October 18, 1990 (19901018)  
JOURNAL: Section: P, Section No. 1422, Vol. 16, No. 445, Pg. 21, September 17, 1992 (19920917)

#### ABSTRACT

PURPOSE: To transmit the contents of a lecture to **hard -of- hearing** persons even through there is no person to talk with finger by recognizing a voice...

...CONSTITUTION: A TV **camera** 11 inputs the signal photographed and **microphoned** to a voice recognizing device 12. The device 12 converts the voice data to a...

... of the human image maintained, and synthesized. The synthesized pattern data is delivered to a **video** signaling device 15. In the device 15, the pattern data from the device 14 is converted to a **video** signal, and displayed on a display device 16 such as a TV.

**25/3,K/3 (Item 1 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

(c) 2004 Thomson Derwent. All rts. reserv.

015955928 \*\*Image available\*\*

WPI Acc No: 2004-113769/200412

XRPX Acc No: N04-090629

**Mobile telephone with video camera analyses motion and shape of speaker's lip from image photographed by video camera , and generates text or voice information**

Patent Assignee: NEC CORP (NIDE )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2004015250	A	20040115	JP 2002163675	A	20020605	200412 B

Priority Applications (No Type Date): JP 2002163675 A 20020605

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 2004015250	A	8	H04M-001/00	

**Mobile telephone with video camera analyses motion and shape of speaker's lip from image photographed by video camera , and generates text or voice information**

Abstract (Basic):

... analysis the motion and shape of a speaker's lip from image photographed by a **video camera** , and generates text or voice information.

... Used by a **hearing impaired** person who uses sign language...

...Even a **hearing impaired** person can talk over mobile telephone using sign language, without using many keys and operation...

...The figure shows a block diagram of the mobile telephone with **video camera** . (Drawing includes non-English language text...

... **microphone** (7

...Title Terms: **VIDEO** ;

**25/3,K/4 (Item 2 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

(c) 2004 Thomson Derwent. All rts. reserv.

015909609 \*\*Image available\*\*

WPI Acc No: 2004-067449/200407

**Method for controlling display of refrigerator**

Patent Assignee: LG ELECTRONICS INC (GLDS )

Inventor: CHO J C; KIM J H; NOH Y H

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
KR 2003072807	A	20030919	KR 200212012	A	20020306	200407 B

Priority Applications (No Type Date): KR 200212012 A 20020306  
Patent Details:  
Patent No Kind Lan Pg Main IPC Filing Notes  
KR 2003072807 A 1 F25D-011/00

Abstract (Basic):

... method for controlling a display of a refrigerator is provided to improve convenience of the **hearing - impaired** or the visually-impaired by allowing displayed information to be heard through a speaker or...  
... S2) allowing the user to record visual and voice memo in the refrigerator through a **camera** and a **microphone** installed on an outside of the refrigerator; a third step (S3) allowing the user to...

25/3,K/5 (Item 3 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

015479142 \*\*Image available\*\*  
WPI Acc No: 2003-541289/200351  
XRPX Acc No: N03-429354

**Hearing aid for people suffering from hearing impairment due to injury and aging, provides audio signal of greater amplitude level from human-generated sound is detected**

Patent Assignee: MOORE K E (MOOR-I); HEWLETT-PACKARD DEV CO LP (HEWP )  
Inventor: MOORE K E

Number of Countries: 001 Number of Patents: 002  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20030099370	A1	20030529	US 2001991917	A	20011126	200351 B
US 6707921	B2	20040316	US 2001991917	A	20011126	200420

Priority Applications (No Type Date): US 2001991917 A 20011126

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes  
US 20030099370 A1 9 H04R-025/00  
US 6707921 B2 H04R-025/00

**Hearing aid for people suffering from hearing impairment due to injury and aging, provides audio signal of greater amplitude level from human-generated...**

Abstract (Basic):

... A processor (115) transmits the audio signal of greater amplitude level from a **microphone** (107) to a speaker (119), based on the detection of existence of human-generated sound corresponding to the lip movement of the image captured by a digital **camera** (110). The speaker outputs the sound into the ears of the user of hearing aid...

... For people suffering from **hearing impairment** due to injury, disease, exposure to damaging sound levels and aging...

... **microphone** (107...

...digital **camera** (110

25/3,K/6 (Item 4 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

014841314      \*\*Image available\*\*

WPI Acc No: 2002-662020/200271

XRPX Acc No: N02-523424

Video camera for video conference system, superimposes character code of speech output by utterance person with video signal captured by image pick-up whose position is adjusted based on utterance person position

Patent Assignee: SONY CORP (SONY )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2002237991	A	20020823	JP 200133351	A	20010209	200271 B

Priority Applications (No Type Date): JP 200133351 A 20010209

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 2002237991	A		6 H04N-005/232	

Video camera for video conference system, superimposes character code of speech output by utterance person with video signal captured by image pick-up whose position is adjusted based on utterance person position

Abstract (Basic):

... speech recognition unit (23) outputs a character code based on the speech output from the microphones (21L,21R). An encoder (13) superimposes the character code with the video signal captured by an image pick-up (11). A detector detects the position of the...  
... For video conference system...

...Since the content of utterance is displayed along with video signal captured by image pick-up, even deaf person could attend the meeting reliably...

...The figure shows the schematic diagram of the video camera . (Drawing includes non-English language text...

... Microphones (23) Speech recognition unit (21L,21R

Title Terms: VIDEO ;

25/3,K/7      (Item 5 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2004 Thomson Derwent. All rts. reserv.

014560244      \*\*Image available\*\*

WPI Acc No: 2002-380947/200241

Related WPI Acc No: 2000-060799; 2001-482072; 2003-128039; 2003-843432; 2004-409959

XRPX Acc No: N02-298001

Portable safety mechanism e.g. intelligent walking stick for handicapped person, converts digital output corresponding to microphone , scanner, GPS input, into voice output

Patent Assignee: ELLIS C G (ELLI-I)

Inventor: ELLIS C G

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6356210	B1	20020312	US 9626919	P	19960925	200241 B



US 97936640 A 19970924  
US 99426739 A 19991026

Priority Applications (No Type Date): US 9626919 P 19960925; US 97936640 A  
19970924; US 99426739 A 19991026

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6356210	B1		46	G08G-001/123	Provisional application US 9626919 CIP of application US 97936640 CIP of patent US 5973618

... **safety mechanism e.g. intelligent walking stick for handicapped person, converts digital output corresponding to microphone , scanner, GPS input, into voice output**

Abstract (Basic):

... An A/D converter converts input signals from **microphone** (314), global positioning system (GPS) (332), image scanner, into digital signals which are processed by...

... mechanism e.g. intelligent walking stick, wheelchair and belt for pedestrians, bicyclist, handicapped and vision/ **hearing impaired** person, and also for equipping infrastructure of vehicles and pedestrian systems with radio transmitter, receiver...

...and superimposed and/or fused vision enhancement, safety and information system, feeding voice, data and **video** transmissions from sensors into computer-based decision supporting algorithm for analyzing fused transmissions from sources...

...as vehicle, infrastructure control and emergency flashing light mechanisms, traffic control light and to certain **video** /audio surveillance equipment and alarms...

...Safety of the visually and **hearing impaired** person is enhanced by producing an alarm indication based on the scanned vicinity images, the ...

... **Microphone** (314

...Title Terms: **MICROPHONE** ;

**25/3,K/8** (Item 6 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2004 Thomson Derwent. All rts. reserv.

014089241 \*\*Image available\*\*

WPI Acc No: 2001-573455/200165

XRPX Acc No: N01-427487

**Train guide display system for railway station, includes controller that converts audio data output by speaker into display data that is output to LED indicator**

Patent Assignee: NIPPON SIGNAL CO LTD (NIUG )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2001005386	A	20010112	JP 99177424	A	19990623	200165 B

Priority Applications (No Type Date): JP 99177424 A 19990623

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
-----------	------	-----	----	----------	--------------

Abstract (Basic):

...      **Microphone** (12) outputs the converted data to speaker (16). A controller (20) converts the audio data...  
...to LED indicator (28). Thus audio content of broadcast is output through the speaker and **video** content of the broadcast is output through LED indicator.  
...      Efficient guidance for the **hearing impaired** people is possible since LED indicator displays **video** content of guidance broadcast such as change in train time table...  
... **Microphone** (12

**25/3,K/9      (Item 7 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

(c) 2004 Thomson Derwent. All rts. reserv.

013381854      \*\*Image available\*\*

WPI Acc No: 2000-553792/200051

XRPX Acc No: N00-410220

**Interphone set for depot work apparatus e.g. ticket dispenser, sends out photographed user's video information from video camera in addition to vocal information**

Patent Assignee: TOSHIBA KK (TOKE )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2000217098	A	20000804	JP 9914457	A	19990122	200051 B

Priority Applications (No Type Date): JP 9914457 A 19990122

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 2000217098	A		6 H04N-007/18	

**Interphone set for depot work apparatus e.g. ticket dispenser, sends out photographed user's video information from video camera in addition to vocal information**

Abstract (Basic):

...      The **microphone** and speaker exchange audio information. If **video** information is received from **video** controller, input-output control circuit (11) displays **video** information to monitor (19) and sends out photographed user's **video** information from **video camera** (18) in addition to vocal information.  
...      As **video** information is provided in addition to vocal information, both **deaf** and dumb person can receive the information...  
... **Video camera** (18  
...Title Terms: **VIDEO** ;

**25/3,K/10      (Item 8 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

(c) 2004 Thomson Derwent. All rts. reserv.

013363406      \*\*Image available\*\*

WPI Acc No: 2000-535345/200049

XRPX Acc No: N00-396079

**Video entryphone system for use by hearing - impaired persons, has**

**data processing unit to convert recognized speech into code which is then displayed**

Patent Assignee: SHARP KK (SHAF )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2000184077	A	20000630	JP 98359459	A	19981217	200049 B

Priority Applications (No Type Date): JP 98359459 A 19981217

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 2000184077	A		8 H04M-009/00	

**Video entryphone system for use by hearing - impaired persons, has data processing unit to convert recognized speech into code which is then displayed**

Abstract (Basic):

... A speech recognition unit of an indoor unit (2) recognizes speech captured by a **microphone** (6). A data processing unit converts the recognized speech into a character code which is...  
... is presented on-screen as text, a person within the house who suffers from a **hearing impairment** can carry out a conversation effectively...

... **Microphone** (6

Title Terms: **VIDEO** ;

**25/3,K/11** (Item 9 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2004 Thomson Derwent. All rts. reserv.

013110585 \*\*Image available\*\*

WPI Acc No: 2000-282456/200024

Related WPI Acc No: 1999-095148; 2002-054608

XRPX Acc No: N00-212595

**Entrance and exit controller for security system in apartments, office buildings, has inner housing with microprocessor which is detachably inside outer housing and connected to speaker and display**

Patent Assignee: ELITE ENTRY PHONE CORP (ELIT-N)

Inventor: PARSADAYAN A; PARSADAYAN W

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6041106	A	20000321	US 96681615	A	19960729	200024 B
			US 97783566	A	19970115	

Priority Applications (No Type Date): US 97783566 A 19970115; US 96681615 A 19960729

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 6041106	A	14	H04M-011/00	CIP of application US 96681615

Abstract (Basic):

... 202) mounted within inner housing (200), which is detachably accommodated within outer housing (100). A **microphone** (204) is connected to microprocessor through telephone system. The microprocessor is operated using external keys...  
... module in the housing (200) is connected to microprocessor through printing interface. Both speaker and **microphone** are aligned with respective apertures of housing (100). The keys are provided

outside the housing...

...Raises service operatively, as access to **hearing** and vision **impaired** persons is possible due to visual display. Prevents generation of echo as audio and **video** signals are output depending on operation conditions. Enhances safety as all circuit components are incorporated  
...

... **Microphone** (204

25/3,K/12 (Item 10 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

012888965 \*\*Image available\*\*  
WPI Acc No: 2000-060799/200005  
Related WPI Acc No: 2001-482072; 2002-380947; 2003-128039; 2003-843432;  
2004-409959  
XRPX Acc No: N00-047566

**Intelligent walking stick for use by a blind or hearing impaired person**

Patent Assignee: ELLIS C G (ELLI-I)  
Inventor: ELLIS C G  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5973618	A	19991026	US 9626919	P	19960925	200005 B
			US 97936640	A	19970924	

Priority Applications (No Type Date): US 9626919 P 19960925; US 97936640 A 19970924

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 5973618	A	40	G08G-001/123	Provisional application US 9626919

**Intelligent walking stick for use by a blind or hearing impaired person**

Abstract (Basic):

... the walking stick are controlled by an interactive voice response system, the frame including a **microphone** for feeding instructions to the voice response system. A GPS system is provided on the...

...transmit information to each of the vehicle, traffic light control system, emergency flashing light mechanism, **video** surveillance equipment or an emission sensor mechanism. When the user is advised that it is safe to cross a road after **video** and digital image processing of the traffic lights, the walking stick activates the in-vehicle...

...Portable safety mechanism or intelligent walking stick for use by a blind or **hearing impaired** person to improve their safety...

25/3,K/13 (Item 11 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

012821002 \*\*Image available\*\*

WPI Acc No: 1999-627233/199954

XRPX Acc No: N99-463914

**Hearing aid apparatus for group education of deaf people**

Patent Assignee: LION KK (LIOY )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 11276517	A	19991012	JP 9881740	A	19980327	199954 B

Priority Applications (No Type Date): JP 9881740 A 19980327

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 11276517	A		A61F-011/00	

**Hearing aid apparatus for group education of deaf people**

Abstract (Basic):

... **Video camera** (1).is provided to record lecturer's expressions and sign language. Recorded **video** -signals are displayed in a monitor (2). **Microphone** (3) provided records lecturer's speech. Output signal of **microphone** is converted into wireless signal by loop coil (5), hearing aid (6) detects and converts  
... For group education of **deaf** people...

... **Deaf** persons understands lecture more correctly by seeing expressions of lecturer along with hearing to lecture...

... **Video camera** (1...

... **Microphone** (3

...Title Terms: **DEAF** ;

**25/3,K/14** (Item 12 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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011813282 \*\*Image available\*\*

WPI Acc No: 1998-230192/199820

Related WPI Acc No: 1996-033457

XRPX Acc No: N98-182342

**Sign language guide information terminal for ATM or railway station - includes image, text, sign and voice inputs and memories which allow editor to generate multi-media guide information for users**

Patent Assignee: HITACHI LTD (HITA )

Inventor: KANEKO Y; OHIRA E; OHKI M; SAGAWA H; SAKIYAMA T

Number of Countries: 002 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5734923	A	19980331	US 94309458	A	19940922	199820 B
			US 96664803	A	19960617	
JP 3179636	B2	20010625	JP 93236119	A	19930922	200138
JP 3222283	B2	20011022	JP 93236118	A	19930922	200169

Priority Applications (No Type Date): JP 9464260 A 19940401; JP 93236118 A 19930922; JP 93236119 A 19930922

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 5734923	A	62	G06T-013/00	Cont of application US 94309458
JP 3179636	B2	5	G06T-013/00	Previous Publ. patent JP 7092904

JP 3222283 B2 24 G06T-001/00 Previous Publ. patent JP 7092938

...Abstract (Basic): The information terminal includes a **video camera** (6) for image input, a keyboard for text input, a **microphone** for voice input and a sign-language input unit for sign-language action pattern data...

...ADVANTAGE - Allows **hearing impaired** or handicapped people to understand output. Allows simple and flexible creation of information to be...

25/3,K/15 (Item 13 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

010863936 \*\*Image available\*\*  
WPI Acc No: 1996-360887/199636  
Related WPI Acc No: 1996-315870  
XRPX Acc No: N96-304406

**Multi purpose hearing aid for deaf and old people - regenerates audio from electromagnetic wave, video -audio, image or vibration from radio, TV, portable telephone, portable video telephone, radio-paging**

Patent Assignee: GETO A (GETO-I); GETO K (GETO-I)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 8172696	A	19960702	JP 95240415	A	19950815	199636 B

Priority Applications (No Type Date): JP 94254093 A 19940912

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 8172696	A	8	H04R-025/00	

**Multi purpose hearing aid for deaf and old people...**

...**regenerates audio from electromagnetic wave, video -audio, image or vibration from radio, TV, portable telephone, portable video telephone, radio-paging**

...Abstract (Basic): can also regenerates an image or a vibration from a radio, TV, portable telephone, portable **video** telephone, radio-paging ...

...It functions as a tape player, compact disc player, magnetic disc player, digital **video** disc player, CD-ROM player...

...ADVANTAGE - Improves **microphone** and volume. Compensate hearing sharpness...

...Title Terms: **DEAF** ;

25/3,K/16 (Item 14 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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009457366 \*\*Image available\*\*  
WPI Acc No: 1993-150892/199318  
XRPX Acc No: N93-115424

**Speech training e.g. for the deaf and hard -of- hearing - involves**

**deriving fundamental voice tone from acoustic speech signal**

Patent Assignee: BELIKOV A P (BELI-I)

Inventor: BELIKOV A P; MULYUKIN N V; VLADIMIROV A YU

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
SU 1737491	A1	19920530	SU 4819002	A	19900426	199318 B

Priority Applications (No Type Date): SU 4819002 A 19900426

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
SU 1737491	A1	4	G09B-021/00	

**Speech training e.g. for the deaf and hard -of- hearing -**

...Abstract (Basic): fundamental tone frequency and voice (speech) intensity. The device for implementing the method includes a **microphone** (3), tape-recorder (4), memory unit (5), sync. unit (7), **video** -signal shaper (8), mixer (9), TV **camera** (10), **video** monitor (11), VTR (12), tactile vibrator (13), power amplifiers (14, 18, 19), frequency correction units...

...USE/ADVANTAGE - Automatic instruction for **deaf** and **hard -of- hearing** patients requiring training in speech skills e.g. for various teaching establishments and for independent...

...Title Terms: **DEAF** ;

**25/3,K/17 (Item 15 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

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007513741

WPI Acc No: 1988-147674/198821

Related WPI Acc No: 1991-273926; 1991-273927; 1992-023981; 1993-075866; 1993-219705

XRAM Acc No: C88-065801

XRPX Acc No: N88-112763

**Infrared receiving and transmitting lens - has curved central and surrounding conical refracting surfaces**

Patent Assignee: HERMAS K A A (HERM-I)

Inventor: HERMAS K A A; HERMAS K

Number of Countries: 012 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 8803658	A	19880519	WO 87FI152	A	19871112	198821 B
FI 8604655	A	19880515				198831
EP 409825	A	19910130	EP 87907765	A	19871112	199105
FI 88083	B	19921215	FI 864655	A	19861114	199304

Priority Applications (No Type Date): FI 864655 A 19861114

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
WO 8803658	A	E 38		

Designated States (National): GB

Designated States (Regional): AT BE CH DE FR GB

EP 409825 A

Designated States (Regional): AT BE CH DE FR GB IT LI LU NL SE

FI 88083 B G02B-005/04 patent FI 8604655

...Abstract (Basic): USE/ADVANTAGE - For use e.g., with mobile radio telephone, wireless **microphone** with musical instrument, **video camera** , simultaneous interpretation device, or studio equipment for **hearing impaired** persons, provides more efficient collection of IR radiation...

?



27/3,K/1 (Item 1 from file: 347)  
DIALOG(R)File 347:JAPIO  
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07285215 \*\*Image available\*\*

HEAD MOUNTED **DISPLAY** FOR WATCHING PUBLIC SUBTITLES AND CLOSED CAPTION  
**TEXT** IN MOVIE THEATER

PUB. NO.: 2002-153684 [JP 2002153684 A]  
PUBLISHED: May 28, 2002 (20020528)  
INVENTOR(s): NEWMAN EDWARD G  
APPLICANT(s): XYBERNAUT CORP  
APPL. NO.: 2001-212681 [JP 2001212681]  
FILED: July 12, 2001 (20010712)  
PRIORITY: 00 650547 [US 2000650547], US (United States of America),  
August 30, 2000 (20000830)

HEAD MOUNTED **DISPLAY** FOR WATCHING PUBLIC SUBTITLES AND CLOSED CAPTION  
**TEXT** IN MOVIE THEATER

#### ABSTRACT

PROBLEM TO BE SOLVED: To provide a system for delivering closed caption **text** to attendees of movie theaters or the other events, and to provide a head mounted **display** used for **hearing impaired** persons and persons who do not speak the language used in the conversation in a...  
...people in the other events.

SOLUTION: A device formed by a monocular or binocular type **display** suitable for the head mounted **display** put on the movie audience or event participants, a central router/processor, and a transmission protocol are main components. Closed caption **text** or representative **text** is projected on a **display screen** of the **display** in synchronization with the conversation in the movie or broadcast so that the **wearer** can see motion on a **screen** and completely separate from the people not using the **display** device. An interface for selecting language of closed caption **text** is provided for the people speaking a foreign language.

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?

29/3,K/1 (Item 1 from file: 347)  
DIALOG(R)File 347:JAPIO  
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03949147 \*\*Image available\*\*  
COMMUNICATION SYSTEM IN MEETING ROOM

PUB. NO.: 04-314247 [JP 4314247 A]  
PUBLISHED: November 05, 1992 (19921105)  
INVENTOR(s): HASEGAWA YOSHIHIKO  
APPLICANT(s): OFF RIYOU KK [000000] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 03-108678 [JP 91108678]  
FILED: April 12, 1991 (19910412)  
JOURNAL: Section: E, Section No. 1338, Vol. 17, No. 148, Pg. 92, March  
24, 1993 (19930324)

COMMUNICATION SYSTEM IN MEETING ROOM

ABSTRACT

...to eliminate the need for a person in charge to walk around seats in the  
room for the collection of questionnaire with respect to the  
communication system in the meeting room .

...  
... viewers fill in questionnaire or a title of a music onto paper in a  
timing designated by the moderator or in an optional timing and use a  
facsimile equipment 21 on...

... viewer making the questionnaire or the request, uses a telephone set 31  
to call a talking device 22 and makes a chat with the viewer, and the  
content is sounded from a speaker 42. Moreover, the moderator makes a  
phone call to a specific viewer on a seat

29/3,K/2 (Item 2 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2004 JPO & JAPIO. All rts. reserv.

03762639 \*\*Image available\*\*  
SYSTEM FOR ELECTRONIC MEETING COMMUNICATION PROCESSING AMONG PLURAL MEETING  
ROOMS UTILIZING INFORMATION COMMUNICATION NETWORK

PUB. NO.: 04-127739 [JP 4127739 A]  
PUBLISHED: April 28, 1992 (19920428)  
INVENTOR(s): NISHINO FUMITO  
IBUKI JUN  
NAKAMURA NAOTO  
SHIOUCHI MASATOSHI  
FUJI HIDE  
APPLICANT(s): FUJITSU LTD [000522] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 02-249382 [JP 90249382]  
FILED: September 19, 1990 (19900919)  
JOURNAL: Section: E, Section No. 1251, Vol. 16, No. 392, Pg. 17,  
August 20, 1992 (19920820)

ABSTRACT

... providing a processing work part a on personal computer terminal so as  
to load the speaking contents of a designated meeting room up to a

**designated** meeting **room** by processing the contents...

... 40-1, for example, is equipped with a processing work part 100 to process the **speaking** contents in one meeting **room** 31 of meeting rooms, for example. This personal computer terminal 40-1 supplies the **speaking** contents from another **personal** computer terminal 40-2 to **designated** meeting rooms 31, 32,... after processing the contents by the processing work part 100. Thus...

?

31/3,K/1 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

004609421

WPI Acc No: 1986-112765/198617

XRFX Acc No: N86-083149

Wearable tactile sensory aid for deaf person - provides information  
on voice pitch and intonation patterns by extracting fundamental  
frequency from speech signal

Patent Assignee: RESEARCH CORP (RESE )

Inventor: BOOTHROYD A

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 4581491	A	19860408				198617 B

Priority Applications (No Type Date): US 84607077 A 19840504

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 4581491	A	13		

Wearable tactile sensory aid for deaf person...

...Abstract (Basic): Accordingly, the wearable tactile display encodes  
the fundamental frequency to provide both frequency of actuation and  
spatial indications of it...

...USE - To be worn by profoundly or totally deaf individuals  
individually. (13pp Dwg No. 1/6)

...Title Terms: DEAF ;

?

36/3,K/1 (Item 1 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2004 JPO & JAPIO. All rts. reserv.

06780805 \*\*Image available\*\*  
INPUT SIGNAL CONTROL SYSTEM FOR SUN- VISOR SPEAKER

PUB. NO.: 2001-008281 [JP 2001008281 A]  
PUBLISHED: January 12, 2001 (20010112)  
INVENTOR(s): MATSUMURA TADAAKI  
APPLICANT(s): FUJITSU TEN LTD  
APPL. NO.: 11-173871 [JP 99173871]  
FILED: June 21, 1999 (19990621)

INPUT SIGNAL CONTROL SYSTEM FOR SUN- VISOR SPEAKER

ABSTRACT

... To bring the interior of a vehicle to an optimum sound field and an acoustic space to a listener at all times, independently of the state of a sun visor and to properly deliver voice information from a reproduction medium source such as a radio...

...navigation device to the listener.

SOLUTION: An input signal control system 10 for a sun- visor speaker 11, that is fitted to a sun visor in the interior of a vehicle and reproduces a received signal, is equipped with a 1st detection means 15, that detects a tilt angle of the sun visor in forward backward directions and with adjustment means 13 that adjusts a frequency characteristics of the signal received by the sun- visor speaker 11, so as to obtain a prescribed frequency characteristics at a listening position on the...

36/3,K/2 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

015504281 \*\*Image available\*\*  
WPI Acc No: 2003-566428/200353  
XRAM Acc No: C03-152761  
XRPX Acc No: N03-450245

**Fire resistant wearable personal computer for use by fire fighter has camera, display unit to preclude moisture intrusion, computer to store and process data and to be worn on person's body, four communications channels, and support**

Patent Assignee: MITCHELL F C (MITC-I); QUINTANA W V (QUIN-I); WINER H P (WINE-I)

Inventor: MITCHELL F C; QUINTANA W V; WINER H P  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6522531	B1	20030218	US 2000696758	A	20001025	200353 B

Priority Applications (No Type Date): US 2000696758 A 20001025

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 6522531	B1	13	H05K-007/02	

**Fire resistant wearable personal computer for use by fire fighter has camera, display unit to preclude moisture intrusion, computer to store and process data and to be worn...**

40/3,K/1 (Item 1 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2004 JPO & JAPIO. All rts. reserv.

05599819 \*\*Image available\*\*  
VIDEO TELEPHONE SYSTEM

PUB. NO.: 09-214619 [JP 9214619 A]  
PUBLISHED: August 15, 1997 (19970815)  
INVENTOR(s): SAKAMOTO YUICHI  
APPLICANT(s): SHARP CORP [000504] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 08-014320 [JP 9614320]  
FILED: January 30, 1996 (19960130)

VIDEO TELEPHONE SYSTEM

ABSTRACT

... satisfactory by preventing the transmission of an unintended picture such as the view of a **room** when a **speaking person** with a slave set moves outside of the detecting **area** of a master set to disable photographing, in a **video** telephone system making a **camera** follow up the speaker using the slave set by providing the **camera** for the master set, providing the cordless slave set and providing a transmission and reception for detecting a distance and a **direction** between the master and slave sets...

... from the slave set 17 are received by a photodetective part 15 to control the **camera** based on the result of detecting the **direction** and the distance. When photographing impossibility is judged by the detecting result, a system control...

40/3,K/2 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

010067280 \*\*Image available\*\*  
WPI Acc No: 1994-334993/199442  
XRPX Acc No: N94-263095

Video conversation and monitoring system with remote function - has remote monitoring function and peripheral equipment control function in addition to video -phonic conversation function and is suitable for various user-intended guidance services

Patent Assignee: HITACHI LTD (HITA ); HITACHI TSUSHIN SYSTEM CO (HISU )  
Inventor: ISHIDA K; TORII N; WATANABE T; ARAMAKI T; EBIHARA T; KIDOKORO M;  
MATSUDA T; MATSUYAMA N; NAKAO A; YAMADA T

Number of Countries: 007 Number of Patents: 012

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 622969	A2	19941102	EP 94106582	A	19940427	199442 B
JP 6315052	A	19941108	JP 93102177	A	19930428	199504
US 5585839	A	19961217	US 94233746	A	19940426	199705
CN 1098840	A	19950215	CN 94106946	A	19940428	199721
US 5745160	A	19980428	US 94233746	A	19940426	199824
			US 96705314	A	19960829	
KR 142505	B1	19980715	KR 948903	A	19940427	200019
JP 2001008181	A	20010112	JP 93102177	A	19930428	200107
			JP 2000134218	A	19930428	
JP 2001008182	A	20010112	JP 93102177	A	19930428	200107

			JP 2000134219	A	19930428	
EP 622969	B1	20011017	EP 94106582	A	19940427	200169
DE 69428622	E	20011122	DE 628622	A	19940427	200201
			EP 94106582	A	19940427	
JP 3472594	B2	20031202	JP 93102177	A	19930428	200402
JP 3493331	B2	20040203	JP 93102177	A	19930428	200410
			JP 2000134218	A	19930428	

Priority Applications (No Type Date): JP 93102177 A 19930428; JP 2000134218 A 19930428; JP 2000134219 A 19930428

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 622969	A2	E	42	H04Q-011/04	
Designated States (Regional): DE FR GB					
JP 6315052	A		24	H04M-011/00	
US 5585839	A		36	H04N-007/15	
CN 1098840	A			H04N-007/00	
US 5745160	A		23	H04N-007/15	Cont of application US 94233746 Cont of patent US 5585839
KR 142505	B1			H04N-007/18	
JP 2001008181	A		21	H04N-007/14	Div ex application JP 93102177
JP 2001008182	A		22	H04N-007/14	Div ex application JP 93102177
EP 622969	B1	E		H04N-007/14	
Designated States (Regional): DE FR GB					
DE 69428622	E			H04N-007/14	Based on patent EP 622969
JP 3472594	B2		20	H04M-011/00	Previous Publ. patent JP 6315052
JP 3493331	B2		19	H04N-007/14	Div ex application JP 93102177 Previous Publ. patent JP 2001008181

Video conversation and monitoring system with remote function...

...has remote monitoring function and peripheral equipment control function in addition to video -phonic conversation function and is suitable for various user-intended guidance services

...Abstract (Basic): The video conversation and monitoring system has one or more end station terminal systems (3,4) and...

...Each end terminal station terminal system includes a video -phonic conversation unit (10) with one input (12) monitoring the image of a room . A second video input (15) enters the image of a visitor when a conversation is in progress. A video output display produces (11) the image. An audio input unit enters the sound (321), while the audio output (322) outputs it. A video coder/decoder transacts video signals...

...USE/ADVANTAGE - Compact, versatile and simple video conversation and monitoring system capable of performing conversation and monitoring through bidirectional transmission of sounds...

...Abstract (Equivalent): A video conversion/monitoring system in which at least one end station terminal system and one center station terminal system are linked through a communication line which carries video and audio information directly between said end station terminal system and said center station terminal system...

...first video input means for entering a monitoring image of a wide area of a room in which said unit is located ,

...second video input means for entering an image of a visitor...

**46/3,K/1 (Item 1 from file: 347)**

DIALOG(R)File 347:JAPIO

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07457443 \*\*Image available\*\*

DEVICE FOR GAME PARLOR MONITOR AND GAME PARLOR MONITORING SYSTEM

PUB. NO.: 2002-325958 [JP 2002325958 A]

PUBLISHED: November 12, 2002 (20021112)

INVENTOR(s): TAKIHARA HIROKAZU

APPLICANT(s): HEIWA CORP

APPL. NO.: 2001-136421 [JP 2001136421]

FILED: May 07, 2001 (20010507)

**ABSTRACT**

...SOLUTION: The game parlor monitoring system has a liquid crystal display section having a small **camera** , a microphone, speakers for the ears and an operating button, and a transmitter and receiver sending an image signal from the small **camera** , a sound signal from the microphone and control information from the operating button and receiving a signal from a monitoring **room** or a hall computer, generating a signal to drive the liquid crystal display and the speakers, and the small **camera** and at least one of the speakers are fixed to the end of a member structured so as to be **mounted** on the **head** , and arranged so as to be located on the right and left of the head...

**46/3,K/2 (Item 2 from file: 347)**

DIALOG(R)File 347:JAPIO

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05579386 \*\*Image available\*\*

INTERLOCKING DEVICE FOR CRANE AND ITS METHOD

PUB. NO.: 09-194186 [JP 9194186 A]

PUBLISHED: July 29, 1997 (19970729)

INVENTOR(s): TAKIHARA KAZUHIKO

NOMA YUUKI

IMAI YUKIO

APPLICANT(s): NIPPON STEEL CORP [000665] (A Japanese Company or Corporation), JP (Japan)

APPL. NO.: 08-022932 [JP 9622932]

FILED: January 17, 1996 (19960117)

**ABSTRACT**

... occurrence of erroneous operations of a crane due to human's error when a HMD( **head mounted display**) is used, and assure safety around the crane ...

...SOLUTION: The interlock device is formed out of a three-dimensional **camera** loaded on a crane, a three-dimensional image display device HMD 3 which is **mounted** over the **head** of an operator in an operating **room** , a mount detector 4 detecting that the HMD 3 is mounted over the operator's...

**46/3,K/3 (Item 3 from file: 347)**

DIALOG(R)File 347:JAPIO

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03176939 \*\*Image available\*\*



EYEBALL MOTION ANALYZER AND TARGET POSITION SETTING APPARATUS USING THE SAME

PUB. NO.: 02-152439 [JP 2152439 A]  
PUBLISHED: June 12, 1990 (19900612)  
INVENTOR(s): KASAHARA TATSUYA  
APPLICANT(s): KONAN CAMERA KENKYUSHO KK [365291] (A Japanese Company or Corporation), JP (Japan)  
APPL. NO.: 63-306450 [JP 88306450]  
FILED: December 02, 1988 (19881202)  
JOURNAL: Section: C, Section No. 753, Vol. 14, No. 403, Pg. 93, August 31, 1990 (19900831)

ABSTRACT

PURPOSE: To dispense with a large dark **room** and to confirm a target at a predetermined position without receiving the effect of an...

... position or that of skin potential by moving an eyepiece moving part in the goggles **mounted** to the **head** in a freely detachable manner to align the focus of a television **camera** with an eyeball...

...CONSTITUTION: Goggles 1 are **mounted** to the **head** of an examinee in a freely detachable manner and external visible light is shielded to form a dark **room** 2 in front of the eyes of the examinee. Eyepiece moving parts 5, 5a made...

...and analyzed through monitors 9, 9a and a computer 11. By this method, a dark **room** is dispensed with and, by aligning the focuses of the television cameras with the eyeballs...

46/3,K/4 (Item 4 from file: 347)

DIALOG(R) File 347:JAPIO

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03168739 \*\*Image available\*\*

MOUNTING DEVICE FOR MONITOR **CAMERA** IN VEHICLE

PUB. NO.: 02-144239 [JP 2144239 A]  
PUBLISHED: June 04, 1990 (19900604)  
INVENTOR(s): KOKUBU YASUO  
KASAMI HIROYUKI  
APPLICANT(s): TOSHIBA CORP [000307] (A Japanese Company or Corporation), JP (Japan)  
TOSHIBA AUDIO VIDEO ENG CORP [485538] (A Japanese Company or Corporation), JP (Japan)  
APPL. NO.: 63-300088 [JP 88300088]  
FILED: November 28, 1988 (19881128)  
JOURNAL: Section: M, Section No. 1013, Vol. 14, No. 384, Pg. 99, August 20, 1990 (19900820)

MOUNTING DEVICE FOR MONITOR **CAMERA** IN VEHICLE

ABSTRACT

PURPOSE: To expose a monitor **camera** outward only at use by mounting a casing inside the armored face of a vehicle...

... movable cover on the casing through a hinge mechanism, and rotationally movably mounting the monitor **camera** on the movable over through a universal head...

...CONSTITUTION: An automobile is provided with a trunk **room** 7 enclosed

with a rear body 4 and a trunk lid 8 on the rear part of a body. A camera receiving room 15 is formed in the trunk room 7. In this case, the camera receiving room 15 is formed out of a casing 16 having an opening on the rear face...

...head 19 is fixed on a face of the movable cover 17, and a monitor camera 3 of waterproof construction is mounted on the universal head 19. Hereby, the monitor camera can be exposed outward only at use.

46/3,K/5 (Item 5 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2004 JPO & JAPIO. All rts. reserv.

01845407 \*\*Image available\*\*  
GUIDING DEVICE OF SELFCONTROL RUNNING TRUCK

PUB. NO.: 61-059507 [JP 61059507 A]  
PUBLISHED: March 27, 1986 (19860327)  
INVENTOR(s): KUBO KATSUMI  
APPLICANT(s): TOSHIBA CORP [000307] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 59-181029 [JP 84181029]  
FILED: August 30, 1984 (19840830)  
JOURNAL: Section: P, Section No. 483, Vol. 10, No. 223, Pg. 135,  
August 05, 1986 (19860805)

#### ABSTRACT

...a running truck and to control the movement of the truck by providing an ITV camera, a picture processing circuit and a running control computer so as to apply any processing...

...CONSTITUTION: A video signal from an ITV camera 1 provided to an universal head 2 mounted on a running truck moving in a room is inputted to the processing circuit 4 via a picture interface 3. The circuit 4...

... the running truck is induced to the object place by the information obtained by the camera 1.

46/3,K/6 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

016151272 \*\*Image available\*\*  
WPI Acc No: 2004-309159/200429  
XRPX Acc No: N04-246174

Angiography photograph device, displays X-ray transmissive image of blood vessel of elbow on monitors provided at laboratory and operator's room by using head mounted display device

Patent Assignee: SHIMADZU CORP (SHMA )  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2004081569	A	20040318	JP 2002247290	A	20020827	200429 B

Priority Applications (No Type Date): JP 2002247290 A 20020827

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
-----------	------	-----	----	----------	--------------

... transmissive image of blood vessel of elbow on monitors provided at laboratory and operator's room by using head mounted display device

Abstract (Basic):

... A head mounted display device (121) is mounted on the head of the patient by an operator of a laboratory. The X-ray transmissive image of...

...displayed at the monitors (112,113,115,116) provided at the laboratory and operator's room, using the head mounted display device.

... Enables an operator to observe the elbow during angiography inspection efficiently, by using head mounted display device...

...TV camera (107...

... head mounted display (121

...Title Terms: ROOM ;

46/3,K/7 (Item 2 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2004 Thomson Derwent. All rts. reserv.

016073870 \*\*Image available\*\*

WPI Acc No: 2004-231731/200422

XRPX Acc No: N04-183387

Organic light emitting diode manufacturing apparatus for e.g. mobile telephone, has film formation chambers in which substrate and mask are positioned, such that vacuum deposition is performed with respect to substrates, in parallel

Patent Assignee: SEMICONDUCTOR ENERGY LAB (SEME )

Inventor: MURAKAMI M; YAMAZAKI S

Number of Countries: 004 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2004047452	A	20040212	JP 2003140481	A	20030519	200422 B
KR 2003089501	A	20031121	KR 200331165	A	20030516	200422
US 20040035360	A1	20040226	US 2003438194	A	20030515	200422
CN 1458666	A	20031126	CN 2003131448	A	20030516	200426

Priority Applications (No Type Date): JP 2002143803 A 20020517

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2004047452	A		31	H05B-033/10	
KR 2003089501	A			H01L-021/00	
US 20040035360	A1			H01L-021/306	
CN 1458666	A			H01L-021/00	

Abstract (Basic):

... For manufacturing organic light emitting diode (OLED) used in display section of digital still camera, notebook computer, mobile computer, DVD drive, head mounted display, video camera, mobile telephone, game machine, navigation system...

...syringing room (122...

46/3,K/8 (Item 3 from file: 350)

DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

016049603 \*\*Image available\*\*

WPI Acc No: 2004-207454/200420

XRAM Acc No: C04-082872

XRPX Acc No: N04-164619

**Thin film transistor manufacture, for liquid crystal display, involves  
gettering catalyst during crystallization of amorphous semiconductor  
layer, then removing semiconductor layer covering catalyst**

Patent Assignee: SEMICONDUCTOR ENERGY LAB (SEME )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2004031543	A	20040129	JP 2002184041	A	20020625	200420 B

Priority Applications (No Type Date): JP 2002184041 A 20020625

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 2004031543	A		21 H01L-021/20	

Abstract (Basic):

... film transistor (TFT) used as switching element of liquid  
crystal display (LCD) used in video **camera** , digital **camera** , rear  
and front projection type projectors, **head mounted** display, goggle  
**mounted** display, car navigation, car stereo, personal computer,  
portable information terminal e.g. mobile computer, mobile...

...Syringing **room** (103...

**46/3,K/9 (Item 4 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

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015986202 \*\*Image available\*\*

WPI Acc No: 2004-144052/200414

XRPX Acc No: N04-114852

**Virtual reality immersing process for sport, involves calculating user  
position based on relative position of target makers distributed in room  
by computer, and repositioning users perspective viewpoint**

Patent Assignee: ZAXEL SYSTEMS INC (ZAXE-N)

Inventor: SUZUKI N; WILLIAMSON T

Number of Countries: 104 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200412141	A2	20040205	WO 2003US23704	A	20030728	200414 B

Priority Applications (No Type Date): US 2002398896 P 20020726

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
WO 200412141	A2 E	71	G06T-000/00	

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA  
CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN  
IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NI NO  
NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG UZ  
VC VN YU ZA ZM ZW

Designated States (Regional): AT BE BG CH CY CZ DE DK EA EE ES FI FR GB  
GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PT RO SD SE SI SK SL SZ TR TZ  
UG ZM ZW

... for sport, involves calculating user position based on relative position of target makers distributed in room by computer, and repositioning users perspective viewpoint

Abstract (Basic):

... The process involves distributing target markers within a room, and providing a head mounted display (1601) with a video camera (1602) and video display (1603).. The camera transmits a video signal to a computer (1607) that calculates a user position based on...  
... a) an apparatus for immersing a user in a three dimensional virtual reality environment room ;  
(...

...b) a process for tracking a video camera ; and...

...c) an apparatus for tracking a video camera .

... Head mounted display (1601)...

...Video camera (1602

...Title Terms: ROOM ;

46/3,K/10 (Item 5 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2004 Thomson Derwent. All rts. reserv.

015954550 \*\*Image available\*\*

WPI Acc No: 2004-112391/200412

XRAM Acc No: C04-046038

Liquid crystal polyester resin foam molded product such as air regulator, is produced by injection molding liquid crystal polyester resin having specific structural units and supercritical fluid

Patent Assignee: TORAY IND INC (TORA )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2003138054	A	20030514	JP 2001339013	A	20011105	200412 B

Priority Applications (No Type Date): JP 2001339013 A 20011105

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 2003138054	A	12	C08J-009/12	

Abstract (Basic):

... housing, ash tray panel, sun visor bracket, sun-visor shaft, sun-visor holder, pillar garnish room mirror stay, regulator handle wheel, door trim, inside door lock knob, inner lock knob, window...  
...washer motor housing, windshield wiper motor insulator, wiper arm head cover, washer nozzle wiper arm head , speedometer driven gear , speedometer control, meter connector, rotation sensor, sped sensor, power seat gear housing, brush holder, motormotor components, writer, typewriter, microscope, binocular, camera , clock precision instrument related components, water-supply faucet frame, mixer tap, pump components, pipe joint...

46/3,K/11 (Item 6 from file: 350)

DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

015259207      \*\*Image available\*\*

WPI Acc No: 2003-320136/200331

XRPX Acc No: N03-255348

Head mounted illumination device for use in e.g. operating room ,  
has illumination controller to regulate linear motors based on deviation  
of acquired and reference images of area to be illuminated

Patent Assignee: DAINIPPON SCREEN SEIZO KK (DNIS )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2003036704	A	20030207	JP 2001223279	A	20010724	200331 B

Priority Applications (No Type Date): JP 2001223279 A 20010724

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 2003036704	A	13	F21S-002/00	

Head mounted illumination device for use in e.g. operating room ,  
has illumination controller to regulate linear motors based on deviation  
of acquired and reference images...

Abstract (Basic):

... 25) which produces the control signal for the linear motors from  
the calculated deviation. A camera (13), mounted to the illumination  
portion (12), acquires the image of the object or area...

...For use in illuminating e.g. operating room .

...

... Camera (13

...Title Terms: ROOM ;

46/3,K/12      (Item 7 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2004 Thomson Derwent. All rts. reserv.

014908231      \*\*Image available\*\*

WPI Acc No: 2002-728937/200279

XRPX Acc No: N02-575246

Decorative information providing system for theater, has controller which  
controls head mounted display to display synthesized image based on  
camera selected by user

Patent Assignee: SYSTEM KENKYUSHO KK (SYST-N)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2002271815	A	20020920	JP 200165437	A	20010308	200279 B

Priority Applications (No Type Date): JP 200165437 A 20010308

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 2002271815	A	8	H04N-013/00	

Decorative information providing system for theater, has controller which  
controls head mounted display to display synthesized image based on  
camera selected by user

Abstract (Basic):

... 4b) synthesize several image data output by the cameras (1a,1b).  
A controller controls a **head mounted** display (11) to display the  
synthesized image based on the **camera** chosen by the user.  
... For theater, plants, sports stadium and **auditorium** .  
...

... **Head mounted** display (11)

...Title Terms: **CAMERA** ;

**46/3,K/13** (Item 8 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

014447391 \*\*Image available\*\*

WPI Acc No: 2002-268094/200231

XRPX Acc No: N02-208561

**Instrument visualization system for control room video system, includes  
a radiation pyrometer aligned with the field of view of a video camera ,  
and a processor producing a combined video and measurement signal to a  
display**

Patent Assignee: IMAGING & SENSING TECHNOLOGY CORP (IMAG-N)

Inventor: LUDWIG R A; ZABRISKIE W L

Number of Countries: 094 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200180566	A1	20011025	WO 2001US11980	A	20010412	200231 B
AU 200151581	A	20011030	AU 200151581	A	20010412	200231
US 6667761	B1	20031223	US 2000549363	A	20000414	200408

Priority Applications (No Type Date): US 2000549363 A 20000414

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200180566 A1 E 18 H04N-007/18

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA  
CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP  
KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT  
RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR  
IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

AU 200151581 A H04N-007/18 Based on patent WO 200180566

US 6667761 B1 H04N-009/47

**Instrument visualization system for control room video system, includes  
a radiation pyrometer aligned with the field of view of a video camera ,  
and a processor producing a combined video and measurement signal to a  
display**

Abstract (Basic):

... A video **camera** (16) has a range of view (18) and a field of  
view (19) and produces...

...A non-contact radiation pyrometer (21) has a measurement zone (22)  
aligned with the video **camera** field of view and produces a  
measurement output signal (23). A processor (24) combines the...

...to a display (26). A control device (28) is used to move a pan/tilt  
**head** (34) on a **mount** (35) to adjust the field of view.

... Video **camera** (16...

...Title Terms: ROOM ;

46/3,K/14 (Item 9 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

013934119 \*\*Image available\*\*  
WPI Acc No: 2001-418333/200144  
XRPX Acc No: N01-309891

Remote mobile eyepiece system for receiving light from a telescope uses  
an electromagnetic beacon signal to communicate the eyepiece position and  
software integrated with stepping motors to direct the light

Patent Assignee: ALDEN R M (ALDE-I)  
Inventor: ALDEN R M  
Number of Countries: 094 Number of Patents: 003  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200148530	A1	20010705	WO 2000US35210	A	20001226	200144 B
AU 200122911	A	20010709	AU 200122911	A	20001226	200164
US 6456440	B1	20020924	US 99469407	A	19991229	200266

Priority Applications (No Type Date): US 99469407 A 19991229

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 200148530	A1	E	30	G02B-025/00	

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA  
CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP  
KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT  
RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR  
IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

AU 200122911	A		G02B-025/00	Based on patent WO 200148530
US 6456440	B1		G02B-025/00	

Abstract (Basic):

... to user instructions translated by a CPU (36) to send the object  
light to the head mount (51) and attached remote viewing eyepiece  
(49).

... to view objects while moving about unrestricted or sitting in  
the comfort of their living room. Multiple users with remote  
eyepieces can view the object through the telescope simultaneously. The  
remote eyepiece can also be a camera.

...

... Head mount . (51)

46/3,K/15 (Item 10 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

013069278 \*\*Image available\*\*  
WPI Acc No: 2000-241150/200021  
XRPX Acc No: N00-181258

Reflection controller for head mounted display unit controls the  
reflection of video by reflecting optical systems towards the user's head  
based on the position of the user's head detected by camera

Patent Assignee: ATR CHINO EIZO TSUSHIN KENKYUSHO KK (ATRC-N)  
Number of Countries: 001 Number of Patents: 001



Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2000056258	A	20000225	JP 98225784	A	1998081	200021 B

Priority Applications (No Type Date): JP 98225784 A 19980810

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 2000056258	A	7	G02B-027/02	

**Reflection controller for head mounted display unit controls the reflection of video by reflecting optical systems towards the user's head based on the position of the user's head detected by camera**

Abstract (Basic):

... systems, is controlled based on the position of the user's head detected by a **camera** (20). Video reproduction unit (60) receiving the video reflected by the optical system for reproducing...  
... For **head mounted display unit**...

...dimensional video and enables different users to observe the video in the interior of a **room** .  
...

...The figure shows the block diagram of the entire components of the **head mounted display unit**...

... **Camera** (20

...Title Terms: **CAMERA**

**46/3,K/16 (Item 11 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

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008107007 \*\*Image available\*\*

WPI Acc No: 1989-372118/198951

XRPX Acc No: N89-283264

**Eye movement testing mask flexibly sealed to patient's face - prevents light entry, and includes infrared source irradiating eyes, and camera detecting reflection**

Patent Assignee: KONAN CAMERA RES INST INC (KONA-N); KONAN CAMERA RES INST (KONA-N)

Inventor: KASAHARA T; KISHI K; KASHARA T

Number of Countries: 005 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 346846	A	19891220	EP 89110715	A	19890613	198951 B
US 4988183	A	19910129	US 89365189	A	19890612	199107
EP 346846	B1	19930901	EP 89110715	A	19890613	199335
DE 68908782	E	19931007	DE 608782	A	19890613	199341
			EP 89110715	A	19890613	

Priority Applications (No Type Date): JP 88145425 A 19880613

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
EP 346846	A	E 13		

Designated States (Regional): DE FR GB IT

EP 346846 B1 E 14 A61B-003/10

Designated States (Regional): DE FR GB IT

DE 68908782 E A61B-003/10 Based on patent EP 346846

54/3,K/1 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

015504416 \*\*Image available\*\*  
WPI Acc No: 2003-566563/200353  
XRPX Acc No: N03-450374

**Telephone service provision method for hearing impaired , involves  
filtering synchronization tone output in response to text message, from  
reaching communication assistant and hearing party**

Patent Assignee: WORLDCOM INC (WORL-N)

Inventor: SMITH J O

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6542582	B1	20030401	US 2001910789	A	20010724	200353 B

Priority Applications (No Type Date): US 2001910789 A 20010724

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 6542582	B1	11	H04M-011/00	

**Telephone service provision method for hearing impaired , involves  
filtering synchronization tone output in response to text message, from  
reaching communication assistant and hearing party**

Abstract (Basic):

... Voice message received from a hearing party is converted into a text message by a **communication assistant** (170). A modem (162) converts the text message received from the **communication assistant** into a synchronization tone which is filtered by a filter (190), so that synchronization tone is prevented from reaching the **communication assistant** and the hearing party.

... 3) device for facilitating communication with a **hearing impaired** party...

...For providing telephone services for **hearing impaired** person...

...tones are prevented from reaching the hearing party, without clipping the voice message from the **hearing impaired** person, thus the reliable and accurate conversations between the **hearing impaired** parties, the **communication assistant** and the hearing parties is realized. Frequent re-synchronizing of teletype device is avoided, thus ...

... **communication assistant** (170)

54/3,K/2 (Item 2 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

011854568 \*\*Image available\*\*  
WPI Acc No: 1998-271478/199824  
Related WPI Acc No: 1995-164169; 1996-039796  
XRPX Acc No: N98-213230

**Message relaying method for hearing impaired telephone callers using  
TDD - involves analysing calling information in expertise identifying  
passing routine, selecting communication assistant having all  
requirements and automatically routing call to selected CA**

Patent Assignee: AT & T (AMTT )  
Inventor: EISDORFER J; KASDAY L R; SCHULZ D E  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5745550	A	19980428	US 93147391	A	19931104	199824 B
			US 94299937	A	19940901	
			US 95476811	A	19950607	

Priority Applications (No Type Date): US 95476811 A 19950607; US 93147391 A 19931104; US 94299937 A 19940901

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 5745550	A	17	H04M-011/00	CIP of application US 93147391
				CIP of application US 94299937
				CIP of patent US 5463665
				CIP of patent US 5475733

**Message relaying method for hearing impaired telephone callers using TDD...**

...involves analysing calling information in expertise identifying passing routine, selecting communication assistant having all requirements and automatically routing call to selected CA

...Abstract (Basic): The method is for relaying a call between a telephone device for the deaf (TDD) and other users, and includes automatically notifying a TDD caller of readiness to receive...

...A communication assistant is selected capable of expertise identified in the analyzing step, and the call is automatically routed to the selected communication assistant. The expertise is identified on the basis of syntax corrections required...

54/3,K/3 (Item 3 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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011283691 \*\*Image available\*\*  
WPI Acc No: 1997-261596/199724  
XRPX Acc No: N97-216166

**Telephone relay service operator services for deaf smart messages and macros - generating context dependent message based on call processing event for review by communication assistant who sends message to relay party using message button**

Patent Assignee: AT & T CORP (AMTT ); AMERICAN TELEPHONE & TELEGRAPH CO (AMTT ); AT & T (AMTT )

Inventor: KASDAY L R; KUNDAJE V; LOMAX S J; MILLIOS W L; SCHULZ D E  
Number of Countries: 006 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 773659	A2	19970514	EP 96117890	A	19961107	199724 B
CA 2189490	A	19970509	CA 2189490	A	19961104	199736
JP 9252363	A	19970922	JP 96296169	A	19961108	199748
US 5680443	A	19971021	US 95555555	A	19951108	199748
CA 2189490	C	20000523	CA 2189490	A	19961104	200039

Priority Applications (No Type Date): US 95555555 A 19951108

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 773659	A2	E	14	H04M-011/06	
Designated States (Regional): DE FR GB					
CA 2189490	A			H04M-003/42	
JP 9252363	A		12	H04M-011/00	
US 5680443	A		14	H04M-001/64	
CA 2189490	C	E		H04M-003/42	

**Telephone relay service operator services for deaf smart messages and macros...**

...generating context dependent message based on call processing event for review by communication assistant who sends message to relay party using message button

...Abstract (Basic): USE/ADVANTAGE - Eliminates possibility of communication assistant forgetting to press function key or pressing wrong one, or improperly determining operating status of...  
 ...Title Terms: **DEAF** ;

54/3,K/4 (Item 4 from file: 350)  
 DIALOG(R)File 350:Derwent WPIX  
 (c) 2004 Thomson Derwent. All rts. reserv.

010542842 \*\*Image available\*\*  
 WPI Acc No: 1996-039796/199604  
 Related WPI Acc No: 1995-164169; 1998-271478  
 XRPX Acc No: N96-033554

**Call relay method for multilingual network incorporating voice, TDD, ASCII users - prompting TDD caller for information, automatically identifying language being used, parsing received calling information in appropriate language to determine forward number routing call through CA that speaks language**

Patent Assignee: AT & T CORP (AMTT )  
 Inventor: EISDORFER J; KASDAY L R; SCHULZ D E  
 Number of Countries: 003 Number of Patents: 004  
 Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5475733	A	19951212	US 93147391	A	19931104	199604 B
			US 94299937	A	19940901	
CA 2154304	A	19960302	CA 2154304	A	19950720	199624
MX 186264	B	19971003	MX 953707	A	19950829	199901
CA 2154304	C	19990126	CA 2154304	A	19950720	199915

Priority Applications (No Type Date): US 94299937 A 19940901; US 93147391 A 19931104

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5475733	A		14	H04M-011/00	CIP of application US 93147391
CA 2154304	A			H04M-003/42	
MX 186264	B			H04M-011/000	
CA 2154304	C			H04M-003/42	

...Abstract (Basic): information which is automatically analysed in a language-identifying parsing routine for parsing prose. A communication assistant capable of using a language identified in the analysing step is selected and the call is automatically routed to the selected communication assistant .

...Title Terms: **DEAF** ;

**54/3,K/5** (Item 5 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

010262914 \*\*Image available\*\*  
WPI Acc No: 1995-164169/199522  
Related WPI Acc No: 1996-039796; 1998-271478  
XRPX Acc No: N95-128785

**Telephone call relaying method between TDD and other users -  
automatically prompting hearing - impaired caller for calling  
information parsed to determine forward number and routing to one of  
several communication assistants**

Patent Assignee: AMERICAN TELEPHONE & TELEGRAPH CO (AMTT ); AT & T CORP  
(AMTT )

Inventor: MILLIOS W L; SCHULZ D E  
Number of Countries: 004 Number of Patents: 006  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
GB 2283640	A	19950510	GB 9421580	A	19941026	199522 B
CA 2134484	A	19950505	CA 2134484	A	19941027	199531
US 5463665	A	19951031	US 93147391	A	19931104	199549
GB 2283640	B	19980408	GB 9421580	A	19941026	199816
CA 2134484	C	19980616	CA 2134484	A	19941027	199835
MX 186859	B	19971105	MX 948502	A	19941103	199934

Priority Applications (No Type Date): US 93147391 A 19931104

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
GB 2283640	A		26	H04M-001/00	
US 5463665	A		11	H04M-011/00	
CA 2134484	A			H04M-001/26	
GB 2283640	B			H04M-001/00	
CA 2134484	C			H04M-001/26	
MX 186859	B			H04M-011/000	

... **automatically prompting hearing - impaired caller for calling  
information parsed to determine forward number and routing to one of  
several...**

...Abstract (Basic): The method involves relaying telephone calls from a  
**hearing impaired** individual using a telephone device for the **deaf**  
(TDD...

...Automatic connection using a parser program to recognise the number  
required and communication through a **communication assistant** (CA)  
are also included in the method. A relay system using the method  
consists of...

...telecommunications platform invokes a parser program and on completion  
routes the call to an available **communication assistant** (CA)  
position. On the **communication assistant** pressing a button, the  
required telephone number is automatically dialled and the user  
informed. The call proceeds between the user and the called party with  
the **communication assistant** and relay translating...

...USE/ADVANTAGE - Allows **hearing impaired** to communicate with others  
over the telephone. Improved connection system saves user time and  
money...

File 348:EUROPEAN PATENTS 1978-2004/Jul W02

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File 349:PCT FULLTEXT 1979-2002/UB=20040715,UT=20040708

(c) 2004 WIPO/Univentio

Set	Items	Description
S1	399142	DISPLAY?? OR SCREEN?? OR VISUAL(3N) (DISPLAY?? OR SCREEN??)
S2	189	S1(3N)WEARABLE
S3	396	MICROPHONE(3N)ARRAY?
S4	148720	CAMERA OR VIDEO
S5	16932	FIELD(3N)VIEW
S6	64	(FACIAL OR FACE) (3N)FEATURE??(3N) (MOVE OR MOVES OR MOVING - OR MOVEMENT??)
S7	2048	DEAF OR HARD(3N)HEARING OR HEARING(3N)IMPAIR?
S8	37	(DISABLE? OR DISABILITY) (3N)HEARING OR PHYSICALLY(3N)CHALL- ENGED(3N)HEARING
S9	412717	(MARK? OR TARGET? OR POINT? OR INDICAT? OR LOCAT? OR IDENT- I? OR FIND? OR DETERMIN? OR DIRECT?) (3N) (LOCATION OR PLACEMENT OR AREA OR SPACE)
S10	27596	SPEAKER OR (SPEAKING OR TALKING) (3N) (PERSON?? OR INDIVIDUAL- ??)
S11	249	(CURRENTLY OR PRESENTLY OR DESIGNATED) (3N) (SPEAKING OR TAL- KING)
S12	297667	ROOM OR AUDITORIUM OR THEATER OR THEATRE
S13	13127	S1(3N) (TEXT OR WORDS OR TRANSCRIPTION)
S14	17	COMMUNICATION()ASSISTANT
S15	12	AU=(BASSON, S? OR KANEVSKY, D? OR BASSON S? OR KANEVSKY D?)
S16	27994	MICROPHONE? OR MICRO()PHONE?
S17	7022	IC=G10L?
S18	1	S2(S) (S7 OR S8)
S19	0	S18 NOT TACTILE
S20	0	(FACE OR FACIAL) (3N) SPEECH(3N) SPEAKER??(7N) TRACK?(5N) CONFE- RENCE?
S21	0	(GLASSES OR HEAD-MOUNT? OR HEADMOUNT? OR GOGGLE? OR VISOR - OR WEAR?) (3N) (S7 OR S8) (3N) S1
S22	4	(S7 OR S8) (10N) (S3 OR S16) (10N) S4
S23	0	S9(3N)S6
S24	7	S9(S)S6
S25	0	S24 AND S17
S26	231	(S3 OR S16 OR S4) (10N) S9(3N)S10
S27	20	S26(S)S12
S28	5	S27(S) (S1 OR S13)
S29	5	S28 NOT (S18 OR S22 OR S24)
S30	3	S15 AND S17
S31	0	S2 AND S15
S32	1173	S1 AND (S7 OR S8)
S33	29	S32(S) (S3 OR S16) (10N) S4
S34	11	S33(S)S10
S35	9	S34 NOT (S30 OR S28 OR S18 OR S22 OR S24)

22/3,K/1 (Item 1 from file: 348)  
DIALOG(R) File 348:EUROPEAN PATENTS  
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01694361

**A system and method for whiteboard and audio capture**  
**Ein System und Verfahren zur weissen Tafel und Audioerfassung**  
**Un systeme et procede pour la saisie d'audio et de tableau blanc**

PATENT ASSIGNEE:

MICROSOFT CORPORATION, (749866), One Microsoft Way, Redmond, WA 98052,  
(US), (Applicant designated States: all)

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LEGAL REPRESENTATIVE:

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, Maximilianstrasse 58, 80538 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 1388794 A2 040211 (Basic)

APPLICATION (CC, No, Date): EP 2003012896 030606;

PRIORITY (CC, No, Date): US 178443 020619

DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR;  
HU; IE; IT; LI; LU; MC; NL; PT; RO; SE; SI; SK; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK

INTERNATIONAL PATENT CLASS: G06F-017/30

ABSTRACT WORD COUNT: 106

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200407	2356
SPEC A	(English)	200407	12299
Total word count - document A			14655
Total word count - document B			0
Total word count - documents A + B			14655

...SPECIFICATION other documents. It also provides a relatively inexpensive way to provide meeting information to the **hearing impaired** .

The Whiteboard Capture System can also be made portable using, for example, a notebook computer with a **microphone** and a **camera** mounted on a tripod. This configuration only requires an additional initial calibration to determine the...other documents. It also provides a relatively inexpensive way to provide meeting information to the **hearing impaired** .

The Whiteboard Capture System can also be made portable by using, for example, a notebook computer with a **microphone** and a **camera** on a tripod. This configuration only requires an additional initial calibration to determine the location...

22/3,K/2 (Item 2 from file: 348)  
DIALOG(R) File 348:EUROPEAN PATENTS  
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01015503

**VIDEO-ASSISTED APPARATUS FOR HEARING IMPAIRED PERSONS**

**VIDEOUNTERSTUTZTE EINRICHTUNG FUR HORBEHINDERTE  
DISPOSITIF ASSISTE PAR VIDEO POUR MALENTENDANTS  
PATENT ASSIGNEE:**

Lapalme, Marie, (2677710), 788, Louis-Normandin, Boucherville, Quebec J4B 3X3, (CA), (Proprietor designated states: all)

**INVENTOR:**

Lapalme, Marie, 788, Louis-Normandin, Boucherville, Quebec J4B 3X3, (CA)

**LEGAL REPRESENTATIVE:**

Bonnetat, Christian (14191), CABINET BONNETAT 29, rue de St. Petersburg, 75008 Paris, (FR)

PATENT (CC, No, Kind, Date): EP 986803 A2 000322 (Basic)  
EP 986803 B1 020724  
WO 9856209 981210

APPLICATION (CC, No, Date): EP 98922558 980526; WO 98CA509 980526

PRIORITY (CC, No, Date): US 867024 970602

DESIGNATED STATES: BE; DE; DK; FR; GB; SE

INTERNATIONAL PATENT CLASS: G09B-021/00; H04R-001/08; H04N-005/225;  
H04N-007/18

**NOTE:**

No A-document published by EPO

LANGUAGE (Publication,Procedural,Application): English; English; English

**FULLTEXT AVAILABILITY:**

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200230	1390
CLAIMS B	(German)	200230	1403
CLAIMS B	(French)	200230	1693
SPEC B	(English)	200230	4315
Total word count - document A			0
Total word count - document B			8801
Total word count - documents A + B			8801

...SPECIFICATION preferably in the form of a 12 volts battery, for powering transmitter 16 and the **camera** (and the optional **microphone** 47).

In use, a speaker S, such as a teacher for **hearing impaired** children H as shown in figure 1, wears headset frame 12 on her head, and  
...

...CLAIMS computer screen, a plasma display screen, a LED screen, or a LCD screen.

8. A **video** assisted apparatus as defined in claim 1, further including a **microphone** member, integrally mounted to said **camera**.

9. Use of a **video** assisted apparatus (10) for helping **hearing impaired** persons in following the speech of a speaker, characterized in that said video-assisted apparatus...

22/3,K/3 (Item 1 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00817161 \*\*Image available\*\*

**APPARATUS AND METHOD FOR VISIBLE INDICATION OF SPEECH**

**APPAREIL ET PROCEDE D'INDICATION VISUELLE DE LA VOIX**

**Patent Applicant/Assignee:**

SPEECHVIEW LTD, 20 Magshimim Street, 49348 Petach Tikva, IL, IL

(Residence), IL (Nationality), (For all designated states except: US)

**Patent Applicant/Inventor:**

MARGALLOT Nachshon, P.O. Box 109, 44814 Elkana, IL, IL (Residence), IL

(Nationality), (Designated only for: US)

**Legal Representative:**



COLB Sanford T Sanford T Colb & Co (agent), P.O. Box 2273, 76122 Rehovot,  
IL,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200150726 A1 20010712 (WO 0150726)

Application: WO 2000IL809 20001201 (PCT/WO IL0000809)

Priority Application: IL 133797 19991229

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE  
ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT  
LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM  
TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 5006

Fulltext Availability:

Detailed Description

Detailed Description

... made to Fig. 9, which illustrates a system for broadcast of television  
content for the **hearing impaired**. In an otherwise conventional  
television studio, a **microphone** 130 and a **camera** 132 preferably  
output to an interface 134 which typically includes the structure of Fig.  
6...

**22/3,K/4 (Item 2 from file: 349)**

DIALOG(R)File 349:PCT FULLTEXT

(c) 2004 WIPO/Univentio. All rts. reserv.

00465744 \*\*Image available\*\*

**VIDEO-ASSISTED APPARATUS FOR HEARING IMPAIRED PERSONS**

**DISPOSITIF ASSISTE PAR VIDEO POUR MALENTENDANTS**

Patent Applicant/Assignee:

LAPALME Marie,

Inventor(s):

LAPALME Marie,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9856209 A2 19981210

Application: WO 98CA509 19980526 (PCT/WO CA9800509)

Priority Application: US 97867024 19970602

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

CA JP US AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Fulltext Word Count: 5922

Fulltext Availability:

Detailed Description

Claims

Detailed Description

... preferably in the form of a 12

volts battery, for powering transmitter 16 and the **camera**

(and the optional **microphone** 47).

In use,, a speaker S, such as a teacher f or  
**hearing impaired** children H as shown in figure 1, wears  
headset frame 12 on her head, and...

Claim

... computer screen, a plasma display  
screen, a LED screen, or a LCD screen,  
8\* A **video** assisted apparatus as defined in  
claim 1, further including a **microphone** member,  
integrally mounted to said **camera** ,  
9\* Use of a **video** assisted apparatus for  
helping **hearing impaired** persons in following the speech  
of a speaker, where said video-assisted apparatus  
comprises a...

?

24/3,K/1 (Item 1 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

(c) 2004 European Patent Office. All rts. reserv.

01670274

Method and system for enhancing portrait images

Verfahren und System zur Verbesserung von Portraithildern

Procede et systeme pour l'amelioration d'images portrait

PATENT ASSIGNEE:

EASTMAN KODAK COMPANY, (201212), 343 State Street, Rochester, New York  
14650, (US), (Applicant designated States: all)

INVENTOR:

Simon, Richard Alan, c/o Eastman Kodak Company, Patent Legal Staff, 343  
State Street, Rochester, New York 14650-2201, (US)

Matraszek, Tomasz, c/o Eastman Kodak Company, Patent Legal Staff, 343  
State Street, Rochester, New York 14650-2201, (US)

Bolin, Mark R., c/o Eastman Kodak Company, Patent Legal Staff, 343 State  
Street, Rochester, New York 14650-2201, (US)

Nicponski, Henry, c/o Eastman Kodak Company, Patent Legal Staff, 343  
State Street, Rochester, New York 14650-2201, (US)

LEGAL REPRESENTATIVE:

Haile, Helen Cynthia et al (60522), Kodak Limited Patent, W92-3A,  
Headstone Drive, Harrow, Middlesex HA1 4TY, (GB)

PATENT (CC, No, Kind, Date): EP 1372109 A2 031217 (Basic)

APPLICATION (CC, No, Date): EP 2003076471 030519;

PRIORITY (CC, No, Date): US 160421 020531

DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR;  
HU; IE; IT; LI; LU; MC; NL; PT; RO; SE; SI; SK; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK

INTERNATIONAL PATENT CLASS: G06T-005/00

ABSTRACT WORD COUNT: 143

NOTE:

Figure number on first page: 2B

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200351	456
SPEC A	(English)	200351	11163
Total word count - document A			11619
Total word count - document B			0
Total word count - documents A + B			11619

...SPECIFICATION used to define whether the facial feature shape is  
increased or decreased by specifying the **location** of the destination  
control points 1820. The shape enhancing filter can be incorporated into  
the...

...maps the position of the slider into appropriate parameter values of the  
shape enhancement filters. **Moving** the slider in one direction causes  
the **facial feature** to decrease in size while **moving** the slider in  
the opposite direction causes the facial feature to increase in size. The

...

24/3,K/2 (Item 2 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

(c) 2004 European Patent Office. All rts. reserv.

01566408

Character deployment method, data management method, and model formation

method  
Charakterausbreitungsverfahren, Datenverwaltungsverfahren und Modelerzeugungsverfahren

Methode de deploiement de caracteres, methode d'administration de donnees et methode de composition de modele

PATENT ASSIGNEE:

Sega Corporation, (3204700), 2-12, Haneda 1-chome, Ohta-ku, Tokyo 144-8531, (JP), (Applicant designated States: all)

INVENTOR:

Mifune, Satoshi, c/o Amusement Vision, Ltd., 12-14 Higashi-Kojiya 2-chome, Ohta-ku, Tokyo 144-8532, (JP)

Ito, Yutaka, c/o Amusement Vision, Ltd., 12-14 Higashi-Kojiya 2-chome, Ohta-ku, Tokyo 144-8532, (JP)

LEGAL REPRESENTATIVE:

Brown, Kenneth Richard et al (28831), R.G.C. Jenkins & Co. 26 Caxton Street, London SW1H 0RJ, (GB)

PATENT (CC, No, Kind, Date): EP 1302226 A2 030416 (Basic)

APPLICATION (CC, No, Date): EP 2002257023 021010;

PRIORITY (CC, No, Date): JP 2001314599 011011

DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE; SK; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: A63F-013/10

ABSTRACT WORD COUNT: 94

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200316	1244
SPEC A	(English)	200316	4279
Total word count - document A			5523
Total word count - document B			0
Total word count - documents A + B			5523

...SPECIFICATION of the vertices M1 through M7 on the basis of the magnitude, shape and relative **location** of polygon 62. In so doing, the magnitudes of each of the polygons are corrected...

...technology to cause the texture which is fixed onto the surface of the model to **move** continuously, richly expressive **facial features** may be obtained.

Thus, according to this embodiment, vertex connection information is prepared in advance...

24/3,K/3 (Item 1 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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01090609 \*\*Image available\*\*

**VIRTUAL REALITY IMMERSION SYSTEM**

**SYSTEME D'IMMERSION DANS LA REALITE VIRTUELLE**

Patent Applicant/Assignee:

ZAXEL SYSTEMS INC, 11666 Dawson Drive, Los Altos Hills, CA 94024, US, US  
(Residence), US (Nationality)

Inventor(s):

WILLIAMSON Todd, 251 South Warnock Street, Philadelphia, PA 19107, US,  
SUZUKI Norihisa, 11666 Dawson Drive, Los Altos Hills, CA 94024, US,

Legal Representative:

GLENN Michael A (et al) (agent), Glenn Patent Group, 3475 Edison Way,  
Ste.L., Menlo Park, CA 94025, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200412141 A2-A3 20040205 (WO 0412141)

Application: WO 2003US23704 20030728 (PCT/WO US03023704)

Priority Application: US 2002398896 20020726

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PG PH PL PT RO RU SC SD  
SE SG SK SL SY TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW

(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE  
SI SK TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 19823

Fulltext Availability:

Detailed Description

Detailed Description

... any kind. Virtual Viewpoint puts the participant's whole body into the  
simulation, including their **facial features**, gestures, **movement**,  
clothing and any accessories. The Virtual Viewpoint system allows  
soldiers, co-workers or colleagues to train together, work together or  
collaborate face-to-face, regardless of each person's actual **location**.

Virtual Viewpoint is not a computer graphics animation but a live video  
recording of the...any kind. Virtual Viewpoint puts the participant's  
whole body into the simulation, including their **facial features**,  
gestures, **movement**, clothing and any accessories. The Virtual Viewpoint  
System allows soldiers, co-workers or colleagues to train together, work  
together or collaborate face-to-face, regardless of each person's actual  
**location**. For example, Fig. 5 illustrates the system merging the 3D  
video image renditions of two...

24/3,K/4 (Item 2 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

(c) 2004 WIPO/Univentio. All rts. reserv.

00993716 \*\*Image available\*\*

**FACIAL MOTION CLONING**

**CLONAGE DE MOUVEMENT FACIAL**

Patent Applicant/Assignee:

VISAGE TECHNOLOGIES AB, Troskaregatan 53, S-583 34 Linkoping, SE, SE  
(Residence), SE (Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

PANDZIC Igor Sunday, Kosirnikova 58C, 10000 Zagreb, HR, HR (Residence),  
HR (Nationality)

Legal Representative:

BERGLUND Erik (agent), Berglunds Patentbyra AB, Aspebraten, S-590 55  
Sturefors, SE,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200323713 A1 20030320 (WO 0323713)

Application: WO 2002SE1615 20020910 (PCT/WO SE0201615)  
Priority Application: US 2001317887 20010910  
Designated States:  
(Protection type is "patent" unless otherwise stated - for applications prior to 2004)  
AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI  
SK SL TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SK TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM  
Publication Language: English  
Filing Language: English  
Fulltext Word Count: 4512

Fulltext Availability:  
Claims

Claim

... them to vertex positions, which is possible because we are working in the normalized facial **space** . Finally, the **target** face is denormalized. The whole process is described in the next five subsections. When applying...value of the function  $f(P)$  for any point  $P(x,y)$  in the 2D **space** .

3

We first **determine** if  $P$  is within any of the triangles  $T_j$ . To do this, we test each...By nonnalizing with the same FAPUs we make sure that the motion of the feature **points** in the normalized **space** corresponds to the MPEG-4 FAPs. At the same time, by normalizing whole regions, we... example, the left lip comers of the source and target face are in the same **point** in the alignrant **space** . We can therefore use the alignment space to map the facial motion from source to...projected faces, shown in Figure 5C, are already roughly aligned. In the final alignment, we **move** the **feature** points of the target **face** onto the corresponding **feature** points of the source **face** . The non- **feature** points are pulled by the feature points so that facial regions remain intact. Figure

24/3,K/5 (Item 3 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2004 WIPO/Univentio. All rts. reserv.

00935991 \*\*Image available\*\*

**REAL-TIME VIRTUAL VIEWPOINT IN SIMULATED REALITY ENVIRONMENT**  
**POINT DE VUE VIRTUEL TEMPS REEL EN ENVIRONNEMENT DE REALITE SIMULEE**

Patent Applicant/Assignee:

ZAXEL SYSTEMS INC, 11666 Dawson Drive, Los Altos Hills, CA 94024, US, US  
(Residence), US (Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

WILLIAMSON Todd, 251 South Warnock Street, Philadelphia, PA 19107, US, US  
(Residence), US (Nationality), (Designated only for: US)

Legal Representative:

LIU Wen (agent), Liu & Liu LLP, 811 West 7th Street, Suite 1100, Los Angeles, CA 90017, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200269272 A2-A3 20020906 (WO 0269272)

Application: WO 2002US2680 20020128 (PCT/WO US0202680)

Priority Application: US 2001264596 20010126; US 2001264604 20010126  
Designated States:  
(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI  
SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English  
Filing Language: English  
Fulltext Word Count: 13591

Fulltext Availability:  
Detailed Description

Detailed Description

... any kind. Virtual Viewpoint puts the participant's whole body into the simulation, including their **facial features**, gestures, **movement**, clothing and any accessories. The Virtual Viewpoint system allows soldiers, co-workers or colleagues to train together, work together or collaborate face-to-face, regardless of each person's actual **location**.

Virtual Viewpoint is not a computer graphics animation but a live video recording of the...any kind. Virtual Viewpoint puts the participant's whole body into the simulation, including their **facial features**, gestures, **movement**, clothing and any accessories. The Virtual Viewpoint System allows soldiers, co-workers or colleagues to train together, work together or collaborate face-to-face, regardless of each person's actual **location**. For example, Fig. 5 illustrates the system merging the 3D video image renditions of two...

24/3,K/6 (Item 4 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2004 WIPO/Univentio. All rts. reserv.

00827931 \*\*Image available\*\*

**LIVE PERFORMANCE CONTROL OF COMPUTER GRAPHIC CHARACTERS**  
**COMMANDE EN DIRECT DE PERSONNAGES GRAPHIQUES INFORMATISES**

Patent Applicant/Assignee:

THE JIM HENSON COMPANY, 117 East 69th Street, New York, NY 10021, US, US  
(Residence), US (Nationality)

Inventor(s):

ROSENBLUTH Steven, 3908-B Heffron Drive, Burbank, CA 91505, US,  
FORBES Jeffrey S, 27046 Rio Prado Drive, Valencia, CA 91354, US,  
MAGILL Timothy, 5732 Calmio Boulevard #7, St. Petersburg, FL 33714, US,

Legal Representative:

HICKMAN Brian D (et al) (agent), Hickman Palermo Truong & Becker, 1600  
Willow Street, San Jose, CA 95125, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200161447 A1 20010823 (WO 0161447)

Application: WO 2000US10065 20000413 (PCT/WO US0010065)

Priority Application: US 2000506679 20000217

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AU CA JP NZ

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE  
Publication Language: English  
Filing Language: English  
Fulltext Word Count: 19245

Fulltext Availability:  
Detailed Description

Detailed Description

... of metals or other rigid materials; electromechanical, hydraulic, or pneumatic servos, or other actuators that **move** parts of the skeleton (limbs, **facial features**, eyes, etc.); and a skin that covers the skeleton and simulates real skin, muscle, hair, etc. Electromechanically actuated puppets also offer the ability to control complex expressions involving numerous actuation **points** in a small **area**. Electromechanically actuated puppets may be remotely controlled using a cable tether that connects a remote...

24/3,K/7 (Item 5 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2004 WIPO/Univentio. All rts. reserv.

00781954 \*\*Image available\*\*

**IMAGE MORPHING BY USING PRINCIPAL COMPONENT ANALYSIS**  
**MORPHAGE D'UN OBJET AU MOYEN DU COMPORTEMENT MORPHOLOGIQUE D'UN AUTRE OBJET**  
Patent Applicant/Assignee:

UNIVERSITY COLLEGE LONDON, Gower Street, London WC1E 6BT, GB, GB  
(Residence), GB (Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

O'HIGGINS Paul, 16 Ascham Street, Kentish Town, London NW5 2PD, GB, GB  
(Residence), GB (Nationality), (Designated only for: US)

JONES Nicholas Martin, 357 New Kings Road, Fulham, London SW6, GB, GB  
(Residence), GB (Nationality), (Designated only for: US)

Legal Representative:

BERESFORD Keith Denis Lewis (et al) (agent), Beresford & Co., 2-5 Warwick Court, High Holborn, London WC1R 5DH, GB,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200115088 A1 20010301 (WO 0115088)

Application: WO 2000GB3207 20000817 (PCT/WO GB0003207)

Priority Application: GB 9919819 19990820

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE  
ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT  
LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM  
TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 13495

Fulltext Availability:  
Claims

Claim

... set) are subjected to registration in order



29/3,K/1 (Item 1 from file: 348)  
DIALOG(R) File 348:EUROPEAN PATENTS  
(c) 2004 European Patent Office. All rts. reserv.

00945596

Surround sound channel encoding and decoding  
Raumklangkanal, Kodierung und Dekodierung  
Canal audio a effet spatial, codage et decodage

PATENT ASSIGNEE:

BOSE CORPORATION, (231462), The Mountain, Framingham, Massachusetts  
01701-9168, (US), (applicant designated states:  
AT;BE;CH;DE;DK;ES;FI;FR;GB;GR;IE;IT;LI;LU;MC;NL;PT;SE)

INVENTOR:

Aylward, Richard J., 302 Cedar Road, Ashland, Massachusetts 01721, (US)

LEGAL REPRESENTATIVE:

Brunner, Michael John et al (28871), GILL JENNINGS & EVERY Broadgate  
House 7 Eldon Street, London EC2M 7LH, (GB)

PATENT (CC, No, Kind, Date): EP 858243 A2 980812 (Basic)  
EP 858243 A3 990728

APPLICATION (CC, No, Date): EP 98300725 980202;

PRIORITY (CC, No, Date): US 796285 970207

DESIGNATED STATES: DE; FR

INTERNATIONAL PATENT CLASS: H04S-003/02;

ABSTRACT WORD COUNT: 322

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9833	5197
SPEC A	(English)	9833	7963
Total word count - document A			13160
Total word count - document B			0
Total word count - documents A + B			13160

...SPECIFICATION midway between the center and left channel loudspeakers, thereby placing the exclusive left channel apparent **speaker location** closer to the **video display** device. Varying the relative amount of exclusive left channel information removed from the decoded left...

...information. In this way, it is possible to place the virtual loudspeakers closer to the **display** device, such as a television **screen**, and thus maintain a reasonable relationship between the visual and acoustic images. This technique is advantageous for home **theater** applications where the left and right channel loudspeakers are placed typically well to the left and right of an attending **display** device and may be asymmetrically placed with respect to the **display** device.

Returning to FIG. 11, the bass channel output signal is the sum of the

...

29/3,K/2 (Item 1 from file: 349)  
DIALOG(R) File 349:PCT FULLTEXT  
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01037501 \*\*Image available\*\*

TOUCH PAD

PAVE TACTILE

Patent Applicant/Assignee:

SOUNDTOUCH LIMITED, Northdown, Genesta Avenue, Whitstable, Kent CT5 4EG,  
GB, GB (Residence), GB (Nationality), (For all designated states  
except: US)

Patent Applicant/Inventor:

HARDIE-BICK Anthony Richard, 18 Dalmeny Court, 8 Duke Street St James's,  
London SW1Y 6BL, GB, GB (Residence), GB (Nationality), (Designated only  
for: US)

Legal Representative:

ATKINSON Ralph (agent), Atkinson Burrington, 25-29 President Buildings,  
President Way, Sheffield S4 7UR, GB,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200367511 A2-A3 20030814 (WO 0367511)  
Application: WO 2003GB515 20030205 (PCT/WO GB0300515)  
Priority Application: GB 20022772 20020206; GB 200225107 20021029; GB  
200225573 20021102; GB 200226033 20021107; GB 200226037 20021107

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SC SD SE SG  
SK SL TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT SE SI  
SK TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 12281

Fulltext Availability:

Detailed Description

Detailed Description

... interaction across a touch-receptive surface, enabling a continuous  
update of  
cursor location on the **screen** to be performed. Wavefront detection  
techniques cannot be used to detect continuous movement of a...between  
spectrum phase and time delay of  
arrival is identified, thus enabling two pairs of **microphones** to be  
used to identify the **location** of a **person speaking** in a **room**.  
However, this acoustic environment is relatively ideal, and the amount of  
echo and reverberation in...

29/3,K/3 (Item 2 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

(c) 2004 WIPO/Univentio. All rts. reserv.

00554681 \*\*Image available\*\*

**METHODS AND APPARATUS FOR MULTIMEDIA NETWORKING SYSTEMS**

**PROCEDES ET DISPOSITIFS POUR SYSTEMES DE RESEAUTAGE MULTIMEDIA**

Patent Applicant/Assignee:

DANIELS John J,

Inventor(s):

DANIELS John J,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200018054 A2 20000330 (WO 0018054)  
Application: WO 99US21900 19990921 (PCT/WO US9921900)  
Priority Application: US 98101416 19980922; US 98107588 19981109; US  
98113142 19981218; US 99126226 19990325; US 99132066 19990430

Designated States:

(Protection type is "patent" unless otherwise stated - for applications

prior to 2004)

AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE  
GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK  
MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN  
YU ZA ZW GH GM KE LS MW SD SL SZ TZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT  
BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA  
GN GW ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 60214

Fulltext Availability:

Detailed Description

Detailed Description

... of the pre-existing video, audio and multimedia device in a home. For example, each **room** of the home that has a television can become part of an in-home **speaker** phone, **video** phone or **video** intercom system. In accordance with this aspect of the invention, at least one **microphone** input **located** at a **location** on the multimedia network is provided for receiving microphone signals. Selecting means, such as a...

...selects the input of the video camera signals, and at least one of the computer **display** local television channel generating means and the video device local television channel generating means includes...

...microphone signals and the selected input of the video camera signals in the corresponding computer **display** local television channel and the video device local television channel.  
In the case of a...

29/3,K/4 (Item 3 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00369523 \*\*Image available\*\*

IN-HOME THEATER SURROUND SOUND SPEAKER SYSTEM

SYSTEME DOMESTIQUE DE HAUT-PARLEURS RENDANT L'AMBIANCE ACOUSTIQUE D'UNE  
SALLE DE SPECTACLES

Patent Applicant/Assignee:

REP INVESTMENT LIMITED LIABILITY COMPANY,

Inventor(s):

GREENBERGER Hal P,

CLACK William F,

RUZICKA Jerome E,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9709851 A1 19970313

Application: WO 96US14290 19960906 (PCT/WO US9614290)

Priority Application: US 95525364 19950907

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AL AM AT AU AZ BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE HU IL IS  
JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO  
RU SD SE SG SI SK TJ TM TR TT UA UG UZ VN KE LS MW SD SZ UG AM AZ BY KG  
KZ MD RU TJ TM AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ  
CF CG CI CM GA GN ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 19042

Fulltext Availability:  
Detailed Description

Detailed Description

... in relation to the visual presentation on the video screen.

Initial attempts to produce home **theater** sound included placing a pair of traditional speakers on either side of a centrally located video **display**. Such systems improved upon the sound of speakers included within the typical television set. However...

...located off the center line between the two speakers will not localize dialog to the **screen** (i.e., perceive the dialog to be solely coming from the **screen**). Dialog is typically recorded equally in both the left and right channels signals. Localization of...

...thefirst arriving signal originates. This will be the closest speaker. Dialog collapses to the near **speaker** as a listener moves off axis - The localization of dialog will be displaced from the **location** of the **video** image for off axis listeners, and the illusion that the characters on **screen** are actually speaking for off axis listeners will be destroyed. Second, a pair of stereo speakers located on either side of the **visual display** confines the sound field to the space in front of the listener, in the plane...

29/3,K/5 (Item 4 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2004 WIPO/Univentio. All rts. reserv.

00123769

**ACOUSTIC DIRECTION IDENTIFICATION SYSTEM**  
**SYSTEME ACOUSTIQUE D'IDENTIFICATION DE DIRECTION**

Patent Applicant/Assignee:

AMERICAN TELEPHONE & TELEGRAPH COMPANY,

Inventor(s):

COKER Cecil Harold,  
FISCHELL David Ross,

Patent and Priority Information (Country, Number, Date):

Patent: WO 8502022 A1 19850509

Application: WO 84US1584 19841004 (PCT/WO US8401584)

Priority Application: US 83258 19831104

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AT BE CH DE FR GB JP LU NL SE

Publication Language: English

Fulltext Word Count: 6099

Fulltext Availability:  
Detailed Description

Detailed Description

... or other

uses as desired. To aid in setup and verifying proper operation, a position **display** 730 for reflecting the angular location from the **microphones** to a **person speaking** in a **room** is provided.

Referring now to FIG. 2, there is shown a

**microphone** preamplifier section 220 and a bandpass filter  
section 270 both suitable for use in the...

?

30/3,K/1 (Item 1 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2004 European Patent Office. All rts. reserv.

01505357

**TRANSCRIPTION AND DISPLAY OF INPUT SPEECH**  
**UMSCHREIBUNG UND ANZEIGE EINES EINGEGEBENEN SPRACHSIGNALS**  
**TRANSCRIPTION ET AFFICHAGE D'UN DISCOURS SAISI**

**PATENT ASSIGNEE:**

International Business Machines Corporation, (200128), New Orchard Road,  
Armonk, NY 10504, (US), (Applicant designated States: all)

**INVENTOR:**

**BASSON, Sara, Helene**, 81 Smith Avenue, White Plains, NY 10605, (US)  
**KANEVSKY, Dimitri**, 1358 Spring Valley Road, Ossining, NY 10562, (US)  
**MAISON, Benoit, Emmanuel**, 11 Lake Street, Apt. 7N, White Plains, NY 10603  
, (US)

**LEGAL REPRESENTATIVE:**

Ling, Christopher John (80401), IBM United Kingdom Limited, Intellectual  
Property Department, Hursley Park, Winchester, Hampshire SO21 2JN, (GB)  
PATENT (CC, No, Kind, Date): EP 1368808 A1 031210 (Basic)

WO 2002075723 020926

APPLICATION (CC, No, Date): EP 2002716176 020128; WO 2002GB359 020128

PRIORITY (CC, No, Date): US 811053 010316

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;  
LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: **G10L-015/22**

**NOTE:**

No A-document published by EPO  
LANGUAGE (Publication,Procedural,Application): English; English; English

**INVENTOR:**

**BASSON, Sara, Helene** ...

...US)

**KANEVSKY, Dimitri** ...

INTERNATIONAL PATENT CLASS: **G10L-015/22**

30/3,K/2 (Item 2 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2004 European Patent Office. All rts. reserv.

00475029

**Improved message recognition employing integrated speech and handwriting  
information.**

**Verbesserte Nachrichtenerkennung, verwendbar bei integrierter Sprach- und  
Handschriftinformation.**

**Reconnaissance de message amelioree sous utilisation d'une langue integree  
et d'une information ecrite a la main.**

**PATENT ASSIGNEE:**

International Business Machines Corporation, (200120), Old Orchard Road,  
Armonk, N.Y. 10504, (US), (applicant designated states: DE;FR;GB)

**INVENTOR:**

**Bellegarda, Jerome Rene**, 490 Boulder Lane, Goldens Bridge, New York 10526  
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**Kanevsky, Dimitri**, Spring Valley Road, Ossining, New York 10562, (US)

**LEGAL REPRESENTATIVE:**

Patentanwalte Grunecker, Kinkeldey, Stockmair & Partner (100721),  
Maximilianstrasse 58, W-8000 Munchen 22, (DE)

PATENT (CC, No, Kind, Date): EP 505621 A2 920930 (Basic)  
EP 505621 A3 930602  
APPLICATION (CC, No, Date): EP 91121181 911210;  
PRIORITY (CC, No, Date): US 676601 910328  
DESIGNATED STATES: DE; FR; GB  
INTERNATIONAL PATENT CLASS: G10L-005/06 ; G10L-007/08 ; G10L-009/06 ;  
G10L-005/00  
ABSTRACT WORD COUNT: 197

LANGUAGE (Publication,Procedural,Application): English; English; English

INVENTOR:

... US)  
Kanevsky, Dimitri ...  
INTERNATIONAL PATENT CLASS: G10L-005/06 ...

... G10L-007/08 ...

... G10L-009/06 ...

... G10L-005/00

30/3,K/3 (Item 1 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00941653 \*\*Image available\*\*

**TRANSCRIPTION AND DISPLAY OF INPUT SPEECH**  
**TRANSCRIPTION ET AFFICHAGE D'UN DISCOURS SAISI**

Patent Applicant/Assignee:

INTERNATIONAL BUSINESS MACHINES CORPORATION, New Orchard Road, Armonk, NY  
10504, US, US (Residence), US (Nationality)  
IBM UNITED KINGDOM LIMITED, PO Box 41, North Harbour, Portsmouth,  
Hampshire PO6 3AU, GB, GB (Residence), GB (Nationality), (Designated  
only for: MG)

Inventor(s):

BASSON Sara Helene , 81 Smith Avenue, White Plains, NY 10605, US,  
KANEVSKY Dimitri , 1358 Spring Valley Road, Ossining, NY 10562, US,  
MAISON Benoit Emmanuel, 11 Lake Street, Apt. 7N, White Plains, NY 10603,  
US

Legal Representative:

FOURNIER Kevin John (agent), IBM United Kingdom Limited, Intellectual  
Property Law, Hursley Park, Winchester, Hampshire SO21 2JN, GB,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200275723 A1 20020926 (WO 0275723)  
Application: WO 2002GB359 20020128 (PCT/WO GB0200359)  
Priority Application: US 2001811053 20010316

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI  
SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English  
Fulltext Word Count: 6982

Inventor(s):

**BASSON Sara Helene ...**

**... KANEVSKY Dimitri**

Main International Patent Class: **G10L-015/22**

?



35/3,K/1 (Item 1 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

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01052128

**Zoomorphic computer user interface**

**Zoomorphe Rechnerbenutzerschnittstelle**

**Interface utilisateur d'ordinateur zoomorphe**

PATENT ASSIGNEE:

XEROX CORPORATION, (219783), Xerox Square, Rochester, New York 14644,

(US), (Applicant designated States: all)

INVENTOR:

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(US)

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Goldberg, David, 619 Channing Avenue, Palo Alto, California 94301, (US)

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(US)

Mynatt, Elizabeth D, 432 Flood Avenue, San Francisco, California 94112,

(US)

Stone, Maureen C, 191 Pine Lane, Los Altos, CA 94022, (US)

Want, Roy, 1541 Morton Avenue, Los Altos, California 94024, (US)

LEGAL REPRESENTATIVE:

Skone James, Robert Edmund (50281), GILL JENNINGS & EVERY Broadgate House

7 Eldon Street, London EC2M 7LH, (GB)

PATENT (CC, No, Kind, Date): EP 929027 A2 990714 (Basic)

EP 929027 A3 000510

APPLICATION (CC, No, Date): EP 99300002 990104;

PRIORITY (CC, No, Date): US 5977 980112

DESIGNATED STATES: DE; FR; GB

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G06F-003/00; G06F-003/033; G06K-011/18

ABSTRACT WORD COUNT: 109

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
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CLAIMS A	(English)	9928	431
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SPEC A	(English)	9928	13050
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Total word count - document A	13481
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Total word count - document B	0
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Total word count - documents A + B	13481
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...SPECIFICATION 45, a zoomorph shaped to resemble a penguin 720 having various accessories (e.g. LCD **screen** 722 for status **display** , hat 730, ear mufflers 732, and darkened glasses 734) can be an interface to a...

...716 connected through audio/visual switch 718 to various audiovisual input/output devices, including a **camera** 740, **microphone** 742, and audio **speaker** system 744. The penguin 720 has various features or physical attributes that a user can...

35/3,K/2 (Item 2 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

(c) 2004 European Patent Office. All rts. reserv.

00864797

METHOD AND APPARATUS FOR COMBINED INFORMATION FROM SPEECH SIGNALS FOR  
ADAPTIVE INTERACTION IN TEACHING AND TESTING  
VERFAHREN UND VORRICHTUNG ZUR ERMITTLUNG VON KOMBINIERTEN INFORMATIONEN AUS  
SPRACHSIGNALEN FUR ADAPTIVE INTERAKTION IN UNTERRICHT UND PRUFUNG  
PROCEDE ET DISPOSITIF PERMETTANT D'OBTENIR DES INFORMATIONS COMBINEES A  
PARTIR DE SIGNAUX VOCAUX POUR UNE INTERACTION ADAPTATIVE DANS  
L'ENSEIGNEMENT ET LE CONTROLE

PATENT ASSIGNEE:

Bernstein, Jared C., (2342460), 1330 Tasso Street, Palo Alto, CA 94301,  
(US), (Proprietor designated states: all)

INVENTOR:

Bernstein, Jared C., 1330 Tasso Street, Palo Alto, CA 94301, (US)

LEGAL REPRESENTATIVE:

Wombwell, Francis et al (46021), Potts, Kerr & Co. 15, Hamilton Square,  
Birkenhead Merseyside L41 6BR, (GB)

PATENT (CC, No, Kind, Date): EP 956552 A1 991117 (Basic)  
EP 956552 B1 020717  
WO 9721201 970612

APPLICATION (CC, No, Date): EP 96942132 961125; WO 96US19264 961125

PRIORITY (CC, No, Date): US 7914 P 951204

DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU;  
MC; NL; PT; SE

INTERNATIONAL PATENT CLASS: G09B-019/04; G09B-007/04; G10L-015/00

NOTE:

No A-document published by EPO

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200229	550
CLAIMS B	(German)	200229	588
CLAIMS B	(French)	200229	668
SPEC B	(English)	200229	3221
Total word count - document A			0
Total word count - document B			5027
Total word count - documents A + B			5027

...SPECIFICATION will be appreciated that in other embodiments, VDT 38 may  
comprise an alternative type of **display** device such as a liquid crystal  
**display** . The components and transducers are connected by logical data  
streams, 50-58. The embodiment shown...

...interacts at a console with a VDT, microphone and a loudspeaker.

However, the microphone and **speaker** in Figure 2 could both be replaced  
by a telephone handset 36.

A language proficiency...

35/3,K/3 (Item 3 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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00844043

SIGN LANGUAGE TELEPHONE SYSTEM FOR COMMUNICATION BETWEEN PERSONS WITH OR  
WITHOUT HEARING IMPAIRMENT

GEBARDENSPRACHENTELEFONSYSTEM FUR DIE KOMMUNIKATION ZWISCHEN  
HORGESCHADIGTEN UND NICHT-HORGESCHADIGTEN

SYSTEME TELEPHONIQUE DE LANGUAGE GESTUEL POUR LA COMMUNICATION ENTRE  
MALENTENDANTS ET NON-MALENTENDANTS

PATENT ASSIGNEE:

Hitachi, Ltd., (204141), 6, Kanda Surugadai 4-chome, Chiyoda-ku, Tokyo

101, (JP), (Proprietor designated states: all)  
 INVENTOR:  
 OHKI, Masaru, 1-51-33, Wagahara, Tokorozawa-shi, Saitama 359, (JP)  
 SAGAWA, Hirohiko, 4-14-6, Nishikoigakubo, Kokubunji-shi, Tokyo 185, (JP)  
 SAKIYAMA, Tomoko, 3-8-9-202, Higashikoigakubo, Kokubunji-shi, Tokyo 185,  
 (JP)  
 IKEDA, Hisashi, 4-14-6, Nishikoigakubo, Kokubunji-shi, Tokyo 185, (JP)  
 FUJISAWA, Hiromichi, 3-15-K-510, Kotesashi-cho, Tokorozawa-shi, Saitama  
 359, (JP)  
 HATAOKA, Nobuo, 15-2, Machiya 4-chome, Shiroyamamachi, Tukei-gun,  
 Kanagawa 220-01, (JP)  
 KANEKO, Youichi, Room 201, Conforu M, 2-7-1, Misonocho, Kodaira-shi,  
 Tokyo 187, (JP)  
 LEGAL REPRESENTATIVE:  
 Beetz & Partner Patentanwalte (100712), Steinsdorfstrasse 10, 80538  
 Munchen, (DE)  
 PATENT (CC, No, Kind, Date): EP 848552 A1 980617 (Basic)  
 EP 848552 A1 980909  
 EP 848552 B1 020529  
 WO 9708895 970306  
 APPLICATION (CC, No, Date): EP 95930010 950830; WO 95JP1723 950830  
 PRIORITY (CC, No, Date): EP 95930010 950830; WO 95JP1723 950830  
 DESIGNATED STATES: DE; FR; GB  
 INTERNATIONAL PATENT CLASS: H04N-007/14; H04M-011/00; G06T-013/00  
 ABSTRACT WORD COUNT: 182  
 NOTE:  
 Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; Japanese  
 FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	199825	1354
CLAIMS B	(English)	200222	1403
CLAIMS B	(German)	200222	1128
CLAIMS B	(French)	200222	1897
SPEC A	(English)	199825	12143
SPEC B	(English)	200222	12226
Total word count - document A			13499
Total word count - document B			16654
Total word count - documents A + B			30153

...SPECIFICATION block diagrams of a sign language telephone device.

In Fig. 1, a TV set 104, **camera** 102, **microphone** 122, **speaker** 126 and mode switch 130 are connected to the sign language telephone device 110. Hand...

...the sign language telephone control device 110 as the images and voices sent from a **camera** or **microphone**, and sends them to a videophone device on the side of a normal person through...

...130 sets the translation mode of the sign language and the picture mode to be **displayed** on a videophone device on the side of a normal person. The videophone on the...

...and being provided with a control table (or a keyboard) equipped with a TV set, **camera**, **microphone**, **speaker** and a group of switches, and comprises a videophone control device.

The sign language telephone...

...SPECIFICATION block diagrams of a sign language telephone device.

In Fig. 1, a TV set 104, **camera** 102, **microphone** 122, **speaker** 126

and mode switch 130 are connected to the sign language telephone device 110. Hand...

...the sign language telephone control device 110 as the images and voices sent from a **camera** or **microphone**, and sends them to a videophone device on the side of a normal person through...130 sets the translation mode of the sign language and the picture mode to be **displayed** on a videophone device on the side of a normal person. The videophone on the ...

...and being provided with a control table (or a keyboard) equipped with a TV set, **camera**, **microphone**, **speaker** and a group of switches, and comprises a videophone control device.  
The sign language telephone...

**35/3,K/4 (Item 1 from file: 349)**  
DIALOG(R)File 349:PCT FULLTEXT  
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01075447   \*\*Image available\*\*  
**SYSTEM FOR CARDIAC RESUSCITATION**  
**SYSTEME DE REANIMATION CARDIAQUE**

Patent Applicant/Inventor:

MATOS Jeffrey A, 132 Hillandale Drive, New Rochelle, NY 10804, US, US  
(Residence), US (Nationality), (For all designated states except: US)

Legal Representative:

MILDE Karl F Jr (agent), Milde & Hoffberg, LLP, 10 Bank Street, Ste. 460,  
White Plains, NY 10606, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 2003103765 A1 20031218 (WO 03103765)  
Application: WO 2003US18542 20030611 (PCT/WO US0318542)  
Priority Application: US 2002387990 20020611

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SC SD SE SG  
SK SL TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE  
SI SK TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 134439

**35/3,K/5 (Item 2 from file: 349)**  
DIALOG(R)File 349:PCT FULLTEXT  
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00910893   \*\*Image available\*\*  
**INTEGRATED METHOD AND SYSTEM FOR COMMUNICATION**  
**SYSTEME ET PROCEDE INTEGRES DE COMMUNICATION**

Patent Applicant/Assignee:

SMARTSPECS L L C, 2840 Hershberger Road, Suite A, Roanoke, VA 24017, US,  
US (Residence), US (Nationality)

Inventor(s):

BLUM Ronald D, 5320 Silver Fox Road, Roanoke, VA 24014, US,

Legal Representative:

WELLS William K (agent), Kenyon & Kenyon, 1500 K Street, N.W., Suite 700,  
Washington, DC 20005, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200245044 A1 20020606 (WO 0245044)

Application: WO 2001US44068 20011126 (PCT/WO US0144068)

Priority Application: US 2000723290 20001128

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI  
SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 11423

Fulltext Availability:

Detailed Description

Detailed Description

... also be employed in the present invention.

In Fig. 27 the eyewear 2795 contains: a **speaker** 2770, a battery strip  
2730,  
a **camera** 2780, a **microphone** 2790, a micro-optical **display** 2700, an  
expandable/retractable arm 2785, and a motor 2710.

Fig. 28 illustrates an...

35/3,K/6 (Item 3 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00862557

GENERATION SUBTITLES OR CAPTIONS FOR MOVING PICTURES

PRODUCTION DE SOUS-TITRES OU DE LEGENDES POUR IMAGES ANIMEES

Patent Applicant/Assignee:

BRITISH BROADCASTING CORPORATION, Broadcasting House, London W1A 1AA, GB,  
GB (Residence), GB (Nationality), (For all designated states except:  
US)

Patent Applicant/Inventor:

KIRBY David Graham, 21 Wallace Fields, Epsom, Surrey KT17 3AX, GB, GB  
(Residence), GB (Nationality), (Designated only for: US)

POOLE Christopher Edward, Flat 5, Oak House, Oakfield Drive, Reigate,  
Surrey RH2 9NY, GB, GB (Residence), GB (Nationality), (Designated only  
for: US)

WIEWIORKA Adam, 16 Ashbourne Grove, Chiswick, London W4 2JH, GB, GB  
(Residence), GB (Nationality), (Designated only for: US)

LAHR William Oscar, 19 Cromford Road, London SW18 1NZ, GB, GB (Residence)  
, GB (Nationality), (Designated only for: US)

Legal Representative:

ROBSON Aidan John (agent), Reddie & Grose, 16 Theobalds Road, London WC1X

8PL, GB,  
Patent and Priority Information (Country, Number, Date):  
Patent: WO 200195631 A2-A3 20011213 (WO 0195631)  
Application: WO 2001GB2547 20010611 (PCT/WO GB0102547)  
Priority Application: GB 200014161 20000609; GB 200024413 20001005  
Designated States:  
(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)  
CA GB US  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR  
Publication Language: English  
Filing Language: English  
Fulltext Word Count: 14099  
  
Fulltext Availability:  
Claims

Claim

... which retains the meaning and  
flavour of the spoken word but which is on the **screen** for  
long enough to be read.  
The saving in time is such that where no...

...in which  
groups of speakers are formed, where each Igroup1 (which  
may only comprise one **speaker** ) contains speakers who can  
be represented by the same colour. This typically  
produces a large...

...the speech recogniser is already  
aligned to the spoken text, (inverted exclamation mark).e. the  
**microphone** output,  
and the **video** of the audiovisual material is already  
aligned with the audio from the audiovisual material..  
Thus...

...placing the subtitles; and  
Figure 8 is a block diagram of a system which uses  
**speaker** identification.  
Figure 9 shows schematically the various branching  
options available in subtitle generation;  
Figure 10...

35/3,K/7 (Item 4 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00772808 \*\*Image available\*\*

**INTEGRATED METHOD AND SYSTEM FOR COMMUNICATION**  
**PROCEDE ET SYSTEME DE COMMUNICATION INTEGRES**

Patent Applicant/Assignee:

SMARTSPECS LLC, 3904 Franklin Road, Suite B, Roanoke, VA 24014, US, US  
(Residence), US (Nationality)

Inventor(s):

BLUM Ronald D, 5320 Silver Fox Road, Roanoke, VA 24014, US  
BLUM Bradley J, 3512 Sunchase Lane, Apt. 808, Roanoke, VA 24018, US  
HINES Kevin P, 129 Stratford Drive, Blue Ridge, VA 24064, US  
LOEB Jack Jr, 5128 Crossbow Circle, Roanoke, VA 24014, US  
DUSTON Dwight P, 59 Fairlane, Laguna Niguel, CA 92677, US

Legal Representative:

WELLS William K, Kenyon & Kenyon, 1500 K Street, N.W., Suite 700,  
Washington, DC 20005, US

Patent and Priority Information (Country, Number, Date):

Patent: WO 200106298 A1 20010125 (WO 0106298)

Application: WO 2000US19419 20000717 (PCT/WO US0019419)

Priority Application: US 99144728 19990720; US 99150544 19990825; US  
99164873 19991112; US 2000615763 20000713

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM DZ EE ES  
FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU  
LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR  
TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 12857

Fulltext Availability:

Detailed Description

Detailed Description

... also be employed in the present invention. In Fig. 27 the eyewear 2795  
contains: a **speaker** 2770, a battery strip 2730, a **camera** 2780, a  
**microphone** 2790, a micro-optical **display** 2700, an  
expandable/retractable arm 2785, and a motor 2710.  
Fig. 28 illustrates an emergency...

35/3,K/8 (Item 5 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00492172 \*\*Image available\*\*

**EYEGLOSS INTERFACE SYSTEM**

**SYSTEME D'INTERFACE POUR VERRES OPTIQUES**

Patent Applicant/Assignee:

THE MICROOPTICAL CORPORATION,

Inventor(s):

SPITZER Mark B,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9923524 A1 19990514

Application: WO 98US22889 19981029 (PCT/WO US9822889)

Priority Application: US 9764430 19971030

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

CA JP KR AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Fulltext Word Count: 8246

Fulltext Availability:

Detailed Description

Detailed Description

... by wire or local RF, with a transceiver  
which is itself in communication with the **video** conferencing  
partner. **Video** conferencing systems with standard CRT **video**

and **microphone / speaker** audio are known in the art. In the present invention, the user receives information in audio and video form through the system interface ( **display** and audio subsystems) and transmits information from the system interface, this information being collected from the **microphone** and **camera** . In a **video** conference, the user

- 21

transmits to the conference images he sees. Alternatively, the user may...

35/3,K/9 (Item 6 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00268344

**SOUND LOCALIZATION SYSTEM FOR TELECONFERENCING USING SELF-STEERING MICROPHONE ARRAYS**

**SYSTEME DE LOCALISATION DU SON POUR TELECONFERENCE UTILISANT DES RANGEES DE MICROPHONES AUTO-DIRECTIONNELS**

Patent Applicant/Assignee:

BELL COMMUNICATIONS RESEARCH INC,

Inventor(s):

ADDEO Eric John,

ROBBINS John David,

SHTIRMER Gennady,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9416517 A1 19940721

Application: WO 94US447 19940111 (PCT/WO US9400447)

Priority Application: US 933380 19930112

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

CA JP AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Fulltext Word Count: 4540

Fulltext Availability:

Detailed Description

Detailed Description

... stations are in audio and video communication with each other, To accomplish the audio and **video** communication, each station typically includes one or more **microphones** for generating an audio signal for transmission to the other station, a **speaker** for receiving an audio signal from the other station, a video camera for generating a video signal for transmission to the other station and a **display** device for displaying a video signal generated at the other station, Each station also typically...

?



File 1:ERIC 1966-2004/Jun 09  
 (c) format only 2004 The Dialog Corporation  
 File 2:INSPEC 1969-2004/Jul W2  
 (c) 2004 Institution of Electrical Engineers  
 File 6:NTIS 1964-2004/Jul W3  
 (c) 2004 NTIS, Intl Cpyrght All Rights Res  
 File 8:Ei Compendex(R) 1970-2004/Jul W2  
 (c) 2004 Elsevier Eng. Info. Inc.  
 File 34:SciSearch(R) Cited Ref Sci 1990-2004/Jul W2  
 (c) 2004 Inst for Sci Info  
 File 35:Dissertation Abs Online 1861-2004/May  
 (c) 2004 ProQuest Info&Learning  
 File 65:Inside Conferences 1993-2004/Jul W3  
 (c) 2004 BLDSC all rts. reserv.  
 File 94:JICST-Eplus 1985-2004/Jun W4  
 (c)2004 Japan Science and Tech Corp(JST)  
 File 95:TEME-Technology & Management 1989-2004/Jun W1  
 (c) 2004 FIZ TECHNIK  
 File 99:Wilson Appl. Sci & Tech Abs 1983-2004/Jun  
 (c) 2004 The HW Wilson Co.  
 File 144:Pascal 1973-2004/Jul W2  
 (c) 2004 INIST/CNRS  
 File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec  
 (c) 1998 Inst for Sci Info  
 File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13  
 (c) 2002 The Gale Group  
 File 603:Newspaper Abstracts 1984-1988  
 (c)2001 ProQuest Info&Learning  
 File 483:Newspaper Abs Daily 1986-2004/Jul 19  
 (c) 2004 ProQuest Info&Learning  
 File 248:PIRA 1975-2004/Jul W1  
 (c) 2004 Pira International

Set	Items	Description
S1	1026678	DISPLAY?? OR SCREEN?? OR VISUAL(3N) (DISPLAY?? OR SCREEN??)
S2	898	S1 AND WEARABLE
S3	2874	MICROPHONE(3N)ARRAY?
S4	609137	CAMERA OR VIDEO
S5	29839	FIELD(3N)VIEW
S6	1221	(FACIAL OR FACE) AND FEATURE?? AND (MOVE OR MOVES OR MOVING)
S7	41871	DEAF OR HARD(3N)HEARING OR HEARING(3N)IMPAIR?
S8	2201	(DISABLE? OR PHYSICALLY(3N)CHALLENGED) AND HEARING
S9	2240225	(MARK? OR TARGET? OR POINT? OR INDICAT? OR LOCAT? OR IDENT- I? OR FIND? OR DETERMIN? OR DIRECT?) AND (LOCATION OR PLACEMENT OR AREA OR SPACE)
S10	67460	SPEAKER OR (SPEAKING OR TALKING) (3N) (PERSON?? OR INDIVIDUAL-??)
S11	2721	(CURRENTLY OR PRESENTLY OR DESIGNATED) AND (SPEAKING OR TALKING)
S12	723254	ROOM OR AUDITORIUM
S13	38304	S1 AND (TEXT OR WORDS OR TRANSCRIPTION)
S14	26	COMMUNICATION()ASSISTANT
S15	270	AU=(BASSON, S? OR KANEVSKY, D? OR BASSON S? OR KANEVSKY D?)
S16	31008	MICROPHONE? OR MICRO()PHONE?
S17	27	(GLASSES OR HEADMOUNTED OR HEAD(3N)MOUNT? GOGGLES OR WEAR? OR VISOR) AND (S7 OR S8) AND DISPLAY
S18	0	S3 AND S4 AND S6 AND (S7 OR S8)
S19	17	RD S17 (unique items)
S20	1	S19 AND PY=2002:2004
S21	16	S19 NOT S20

S22           0    S3 AND S4 AND (S7 OR S8)  
S23           28   (S7 OR S8) AND S9 AND S10  
S24           4    S23 AND S12  
S25           3    RD S24 (unique items)  
S26           238   (GLASSES OR HEADMOUNTED OR HEAD(3N)MOUNT? GOGGLES OR WEAR?  
              OR VISOR) AND S13  
S27           1    S26 AND S11  
S28           7    S26 AND S10  
S29           6    S28 NOT (S27 OR S19 OR S24)  
S30           3    RD S29 (unique items)  
S31           0    S14 AND (S7 OR S8)  
S32           4    (S3 OR S16) AND S17  
S33           1    S32 NOT (S28 OR S27 OR S19 OR S24)  
S34           0    S11 AND S12 AND (S7 OR S8)  
S35           2638   S9 AND S10  
S36           28    S35 AND (S7 OR S8)  
S37           0    S36 AND S6  
S38           8    S36 AND S1  
S39           8    S38 NOT (S32 OR S28 OR S27 OR S19 OR S24)  
S40           7    RD S39 (unique items)  
S41           555   (GLASSES OR HEADMOUNTED OR HEAD(3N)MOUNT? GOGGLES OR WEAR?  
              OR VISOR) AND (S7 OR S8)  
S42           43    S41 AND (TEXT OR WORDS OR TRANSCRIPTION OR CAPTION?)  
S43           4    S42 AND (LECTURE? OR PRESENTATION? OR AUDITORIUM)  
S44           4    S43 NOT (S38 OR S32 OR S28 OR S27 OR S19 OR S24)  
S45           4    RD S44 (unique items)  
S46           36    S42 NOT (S43 OR S38 OR S32 OR S28 OR S27 OR S19 OR S24)  
S47           32    RD S46 (unique items)  
S48           2    S15 AND (S7 OR S8)  
S49           2    RD S48 (unique items)

21/3,K/1 (Item 1 from file: 1)

DIALOG(R)File 1:ERIC

(c) format only 2004 The Dialog Corporation. All rts. reserv.

01043839 ERIC NO.: ED270103 CLEARINGHOUSE NO.: IR012223

Videodiscs in Education. ERIC Digest.

McLean, Lois;

CORP. SOURCE: ERIC Clearinghouse on Information Resources, Syracuse, NY.

(BBB14619)

3pp.

December 1985 (19851200)

SPONSORING AGENCY: Office of Educational Research and Improvement (ED),  
Washington, DC. (EDD00036)

...laser beam allows rapid, random access to any single frame on a disc side, without **wear** on the disc surface.

Additional features include dual audio tracks or stereo sound, variable-speed...

...Level 3 system. For example, a graphic overlay capability has been developed that allows the **display** to contain graphics generated by a computer, visuals from a videodisc, or a combination of...

...on many topics, including whales, metrics, basic tumbling, Spanish pronunciation, and decision-making for the **hearing / impaired**, and has shared information through workshops, seminars, and publications.

--Utah State University has been actively...

21/3,K/2 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

7365663 INSPEC Abstract Number: A2002-20-8770J-012, B2002-10-7520H-003, C2002-10-7850-003

**Title: The KanNon system - the visualization system of speech signals**

Author(s): Nakamoto, T.; Saruta, Y.; Sugimoto, S.

Author Affiliation: Dept. of Electr. & Electron. Eng., Ritsumeikan Univ., Kyoto, Japan

Conference Title: Proceedings of the IASTED International Conference Signal and Image Processing p.213-18

Editor(s): Hamza, M.H.

Publisher: ACTA Press, Anaheim, CA, USA

Publication Date: 2001 Country of Publication: USA iv+440 pp.

ISBN: 0 88986 297 4 Material Identity Number: XX-2001-00672

Conference Title: Proceedings of Signal and Image Processing (SIP 2001)

Conference Sponsor: IASTED

Conference Date: 13-16 Aug. 2001 Conference Location: Honolulu, HI, USA

Language: English

Subfile: A B C

Copyright 2002, IEE

...Abstract: in different frequency bands over time. The proposed KanNon system is a training system for **hearing - impaired** persons to understand speech through the 3D displayed speech spectra, and also is a **wearable** speech **display** system as a new speech communication system for **hearing - impaired** persons. The spectral estimation method adopted in the KanNon system is based on the Burg...

...for model order determination. We describe the composed structure of the KanNon system and its **display** method by applying DSP (digital signal processor).

...Identifiers: **hearing - impaired** persons

21/3,K/3 (Item 2 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

6037272 INSPEC Abstract Number: A9821-8736-005

**Title: Temporal and spatio-temporal vibrotactile displays for voice fundamental frequency: An initial evaluation of a new vibrotactile speech perception aid with normal- hearing and hearing - impaired individuals**

Author(s): Auer, E.T., Jr.; Bernstein, L.E.; Coulter, D.C.

Author Affiliation: Spoken Language Processes Lab., House Ear Inst., Los Angeles, CA, USA

Journal: Journal of the Acoustical Society of America vol.104, no.4 p.2477-89

Publisher: Acoust. Soc. America through AIP,

Publication Date: Oct. 1998 Country of Publication: USA

CODEN: JASMAN ISSN: 0001-4966

SICI: 0001-4966(199810)104:4L.2477:TSTV;1-Q

Material Identity Number: J001-98012

U.S. Copyright Clearance Center Code: 0001-4966/98/104(4)/2477/13/\$15.00

Language: English

Subfile: A

Copyright 1998, IEE

...**Title: voice fundamental frequency: An initial evaluation of a new vibrotactile speech perception aid with normal- hearing and hearing - impaired individuals**

Abstract: Four experiments were performed to evaluate a new **wearable** vibrotactile speech perception aid that extracts fundamental frequency (F0) and displays the extracted F0 as...

... and Tactile-Alone (TA) conditions and compared performance using the temporal and spatio-temporal vibrotactile **display**. Subjects were adults with normal hearing in experiments I-III and adults with severe to profound **hearing impairments** in experiment IV. Both versions of the vibrotactile speech perception aid successfully conveyed intonation. Vibrotactile...

... In experiment III, which involved only intonation identification, a reliable advantage for the spatio-temporal **display** was obtained. Differences between subject groups were obtained for intonation identification, with more accurate VT...

...Identifiers: **hearing - impaired** individuals...

...profound **hearing impairments** ;

21/3,K/4 (Item 3 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

03198639 INSPEC Abstract Number: B88054654

**Title: Portapitch II: a multichannel tactile display of voice fundamental frequency**

Author(s): Boothroyd, A.; Hnath-Chisolm, T.

Author Affiliation: Graduate Sch., City Univ. of New York, NY, USA  
Conference Title: RESNA '87: Meeting the Challenge. Proceedings of the  
10th Annual Conference on Rehabilitation Technology p.425-7  
Editor(s): Steele, R.D.; Gerrey, W.  
Publisher: RESNA - Assoc. Adv. Rehabilitation Technol, Washington, DC,  
USA  
Publication Date: 1987 Country of Publication: USA xii+894 pp.  
Conference Date: 19-23 June 1987 Conference Location: San Jose, CA,  
USA  
Language: English  
Subfile: B

**Title: Portapitch II: a multichannel tactile display of voice  
fundamental frequency**

Abstract: Improvements have been made to a **wearable**, tactile **display**  
that encodes fundamental frequency (F0) as locus of pitch-synchronous  
vibrotactile stimulation. Using a desk...  
...lip reading with and without tactile supplementation. Performance was  
also measured with a single channel **display** that presents F0/2 to the  
finger. Lip reading scores increased slightly with supplementation, but...

... system, were found after 10 hours of practice during a follow-up study  
using a **hearing - impaired** subject.

...Identifiers: multichannel tactile **display** ; ...

...single channel **display** ; ...

... **hearing - impaired** subject

21/3,K/5 (Item 4 from file: 2)

DIALOG(R)File 2:INSPEC

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02497578 INSPEC Abstract Number: A85082613, B85048335

**Title: A wearable tactile intonation display for the deaf**

Author(s): Boothroyd, A.

Author Affiliation: Speech & Hearing Sci. Graduate Sch., City Univ. of  
New York, NY, USA

Journal: IEEE Transactions on Acoustics, Speech and Signal Processing  
vol.ASSP-33, no.1 p.111-17

Publication Date: Feb. 1985 Country of Publication: USA

CODEN: IETABA ISSN: 0096-3518

U.S. Copyright Clearance Center Code: 0096-3518/85/0200-0111\$01.00

Language: English

Subfile: A B

**Title: A wearable tactile intonation display for the deaf**

Abstract: A **wearable** device is described which represents the  
fundamental frequency of voiced sounds as the locus of...

Identifiers: tactile intonation **display** ; ...

... **deaf** ; ...

... **wearable** device

21/3,K/6 (Item 5 from file: 2)

DIALOG(R)File 2:INSPEC

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02035770 INSPEC Abstract Number: B83027412

**Title:** Eyeglass heads-up display

Author(s): Upton, H.W.; Goodman, J.R.

Author Affiliation: Bell Helicopter Textron, Fort Worth, TX, USA

Journal: Proceedings of the S.I.D vol.23, no.2 p.77-80

Publication Date: 1982 Country of Publication: USA

CODEN: SIDPAA ISSN: 0734-1768

U.S. Copyright Clearance Center Code: 0734-1768/82/2302-0077\$1.00

Language: English

Subfile: B

**Title:** Eyeglass heads-up display

Abstract: A micro-heads-up **display** (  $\mu$  -HUD) that is worn like conventional eyeglasses is described. It uses a miniature optical system that presents an image at virtual infinity wherever the **wearer** looks. A miniature fibre-optics generator that presents a microcomputer-controlled raster **display** with 128\*128 element resolution is also described. The details of fabrication of the 128...

... LED array and the coupling of the scanning fibers are discussed. The application of the **display** for a helicopter pilot heads-up- **display** (HUD) and as an aid for the **deaf** is also presented.

...Descriptors: **display** devices

...Identifiers: micro-heads-up **display** ; ...

...microcomputer-controlled raster **display** ; ...

... **deaf**

21/3,K/7 (Item 6 from file: 2)

DIALOG(R)File 2:INSPEC

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00856971 INSPEC Abstract Number: B76006665, C76001121

**Title:** Using the E-model pathsounder

Author(s): Sabonaitis, G.

Journal: CQ Radio Amateur's Journal vol.31, no.7 p.55

Publication Date: July 1975 Country of Publication: USA

CODEN: CQCQAO ISSN: 0007-893X

Language: English

Subfile: A B C

Abstract: Describes the E-Model Pathsounder, a device used by blind and **deaf** -blind people to travel independently. It has the appearance of a transistor radio and is worn or hung around the neck. When an object comes within six feet of the **wearer** the transmitter on the chest of the **wearer** vibrates. When object comes within thirty-two inches, a tiny vibrator on the back of...

... activated and this tells the user not to crash into objects. That vibration is for **deaf** -blind people since blind people need only use the audio **display** , whereby a low buzzing sound emitted at six feet changes to a high beep at thirty-two inches. The vibratory **display** is very strong and easy for **deaf** -blind people to feel on the chest and neck.

21/3,K/8 (Item 7 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

00363224 INSPEC Abstract Number: B72011403

**Title: Tactile pitch displays for the deaf**

Author(s): Willemain, T.R.; Lee, F.F.

Author Affiliation: MIT, Cambridge, MA, USA

Journal: IEEE Transactions on Audio and Electroacoustics vol.AU20,  
no.1 p.9-16

Publication Date: March 1972 Country of Publication: USA

CODEN: ITADAS ISSN: 0018-9278

Language: English

Subfile: A B

**Title: Tactile pitch displays for the deaf**

Abstract: Poor pitch control decreases the intelligibility of **deaf** speech. Small tactile pitch displays have the potential for supplying

continuous corrective feedback for the improvement of the intonation patterns of **deaf** speakers. A simple pitch detector and tactile **display** proved effective in correcting a common intonation problem, indicating that work toward a **wearable** tactile aid is justified. A hypothesis is presented that explains the cause of the pitch problem and the success of the experimental system in terms of the need of the **deaf** speaker for voicing and frequency referents.

Descriptors: **display** equipment...

...Identifiers: **deaf** ; ...

...intonation patterns of **deaf** speakers

21/3,K/9 (Item 1 from file: 6)

DIALOG(R)File 6:NTIS

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0993475 NTIS Accession Number: N82-32569/7

**Development of a Speech Autocuer**

(Quarterly Report, 1 Oct. - 31 Dec. 1980)

Bedles, R. L. ; Kizakvich, P. N. ; Lawson, D. T. ; McCartney, M. L.

Research Triangle Inst., Research Triangle Park, NC.

Corp. Source Codes: 045968000; RS297520

Sponsor: National Aeronautics and Space Administration, Washington, DC.

Report No.: NAS 1.26:170438; RTI/1878/00-05Q; NASA-CR-170438

31 Dec 80 17p

Languages: English

Journal Announcement: GRAI8303; STAR2023

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NTIS Prices: PC A02/MF A01

A **wearable** , visually based prosthesis for the **deaf** based upon the proven method for removing lipreading ambiguity known as cued speech was fabricated and tested. Both software and hardware developments are described, including a microcomputer, **display** , and speech preprocessor.

Descriptors: Auditory defects; \*Communication; \*Prosthetic devices; \*Speech; Data bases; **Display** devices; Microcomputers; Preprocessing

21/3,K/10 (Item 1 from file: 8)

DIALOG(R)File 8: Ei Compendex(R)  
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01853573 E.I. Monthly No: EIM8502-008208

**Title:** EXPERIMENTS WITH A WEARABLE TACTILE PITCH DISPLAY .

Author: Boothroyd, A.

Corporate Source: City Univ of New York, Graduate Sch, New York, NY, USA

Conference Title: Second International Conference on Rehabilitation Engineering, Combined with the RESNA 7th Annual Conference. (Proceedings.)

Conference Location: Ottawa, Ont, Can Conference Date: 19840617

E.I. Conference No.: 05865

Source: Publ by Rehabilitation Engineering Soc of North America, Bethesda, MD, USA p 287-288

Publication Year: 1984

Language: English

**Title:** EXPERIMENTS WITH A WEARABLE TACTILE PITCH DISPLAY .

Abstract: A **wearable** device for the tactile, spatial **display** of voice fundamental frequency is described. Such a device has potential value as an aid...

...also function as a prosthetic aid to speech production and perception. Experiments with normal and **hearing - impaired** subjects show the detection of small changes of fundamental frequency and discrimination among intonation contours...

Identifiers: **DISPLAY** OF VOICE FUNDAMENTAL FREQUENCY; SPEECH INSTRUCTION AID; PROSTHETIC AIR; SPEECH PRODUCTION; SPEECH PERCEPTION; EXPERIMENTAL STUDIES

21/3,K/11 (Item 2 from file: 8)

DIALOG(R)File 8: Ei Compendex(R)  
(c) 2004 Elsevier Eng. Info. Inc. All rts. reserv.

00512730 E.I. Monthly No: EI7601005036 E.I. Yearly No: EI76061432

**Title:** CONFERENCE ON ENGINEERING IN MEDICINE AND BIOLOGY, 27TH ANNUAL, PROCEEDINGS, 1974, SESSION 39.

Author: Anon

Corporate Source: Alliance for Eng in Med and Biol, Chevy Chase, Md

Source: Proceedings of the Annual Conference on Engineering in Medicine and Biology v 16 1974, for Meet, Philadelphia, Pa, Oct 6-10 1974, Sess 39, 10 p

Publication Year: 1974

CODEN: CEMBAD ISSN: 0589-1019

Language: ENGLISH

...Abstract: television sets, etc. ). An automated page turner is described. A system for tactile and visual **display** of symbols or symbol components has been developed for instructing dyslexic children. Sensory aids for...

...enable electrical " readings " to be made by an individual with severely impaired vision. For the **deaf** , an analysis and optimization of visual **display** processes for enhancing the comprehension rate of lipreaders is given, and there is described a **wearable** lipreading aid designed to help identify phenemes that look alike when formed on the lips. The design of a TV- **display** vocoder as a speech-therapy and teaching aid is described. An adaptation of the NASA...



21/3,K/12 (Item 1 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci  
(c) 2004 Inst for Sci Info. All rts. reserv.

01235884 Genuine Article#: GG471 No. References: 40

**Title: PERIPHERAL-VISION LIPREADING AID**

Author(s): EBRAHIMI D; KUNOV H

Corporate Source: UNIV TORONTO, INST BIOMED ENGN/TORONTO M5S

1A4/ONTARIO/CANADA/; UNIV TORONTO, DEPT ELECT ENGN/TORONTO M5S

1A4/ONTARIO/CANADA/; UNIV TORONTO, DEPT OTOLARYNGOL/TORONTO M5S

1A4/ONTARIO/CANADA/

Journal: IEEE TRANSACTIONS ON BIOMEDICAL ENGINEERING, 1991, V38, N10, P  
944-952

Language: ENGLISH Document Type: ARTICLE (Abstract Available)

Abstract: Lipreading provides a limited amount of information about speech signals to profoundly **deaf** people. Visual displays using peripheral vision as an alternative sensory modality can provide supplementary speech information. The utility of a cosmetically acceptable peripheral vision **display** was explored. A pair of eyeglasses with a commercially available two-dimensional red LED array (5 x 7), and its associated electronics was developed. The **display** is visible only to the **wearer**, and is located in the temporal field and the horizontal meridian of the right eye...

...of providing information about voicing and plosion/frication.

Experiments demonstrate the capability of the peripheral **display** in conveying speech information. Presenting vowel-consonant-vowel syllables, the performance was in excess of...

Research Fronts: 89-2088 001 (TACTILE PRESENTATION OF VOICE  
FUNDAMENTAL-FREQUENCY; SPEECH PATTERN CONTRASTS; PROFOUNDLY **HEARING -  
IMPAIRED** CHILDREN; VIBROTACTILE AID; VIBRATORY STIMULI)

21/3,K/13 (Item 1 from file: 94)

DIALOG(R)File 94:JICST-EPlus

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02612053 JICST ACCESSION NUMBER: 95A0947761 FILE SEGMENT: JICST-E

**From sensory substitute studies to virtual reality technologies.**

IFUKUBE TOORU (1)

(1) Hokudai Denshikaken

Joho Shori Gakkai Kenkyu Hokoku, 1995, VOL.95, NO.95(CV-96), PAGE.65-71,  
FIG.11

JOURNAL NUMBER: Z0031BAO ISSN NO: 0919-6072

UNIVERSAL DECIMAL CLASSIFICATION: 681.3:621.397.3 616/618-76/78

681.51:007.51

LANGUAGE: Japanese

COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Original paper

MEDIA TYPE: Printed Publication

...ABSTRACT: lost or damaged senses. On the other hand, virtual reality is one of technologies to **display** informations which are similar to real images, and its research approach is almost the same...

...sensory substitute studies expect that the sensory substitute devices are used for only by the **disable**. We have been carrying out the sensory substitute studies for about 25 years, and have...

...a monosyllabic voice typewriter, a cochlear implant, a tinnitus suppressor, an artificial larynx, a digital **hearing** aid, ultrasonic

eye **glasses** , and an equilibrium aid. And also, we have got many findings such as sensory integration...

21/3,K/14 (Item 1 from file: 95)  
DIALOG(R)File 95:TEME-Technology & Management  
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00531499 F92032016941

**The 'talking glove': a speaking aid for nonvocal deaf and deaf-blind individuals**

(Der 'sprechende Handschuh': Eine Sprechhilfe fuer sprechunfaehige Taube und Taub-Blinde)

Kramer, J; Leifer, L

Univ. Stanford, USA

RESNA '89, Proceedings of the 12th Annual Conference, New Orleans, USA, June 25-30, 1989/1989

Document type: Conference paper Language: English

Record type: Abstract

ISBN: 0-932101-25-9

**The 'talking glove': a speaking aid for nonvocal deaf and deaf-blind individuals**

**ABSTRACT:**

A new two-way communication system is being developed to reduce the communication barrier between **hearing** persons and nonvocal **deaf** and **deaf-blind** people. A **deaf** person can 'speak' to a **hearing** person by **wearing** the 'Talking Glove', i.e., an instrumented glove which converts his fingerspelled words into synthesized speech. The **hearing** person replies by typing on a portable pocket keypad. This response is presented to a sighted **deaf** person on an alphanumeric wristwatch **display** or to a **deaf-blind** person on a mechanical braille **display**. The communication system has been tested by several **deaf** and **deaf-blind** individuals with encouraging results.

...DESCRIPTORS: LIQUID CRYSTAL DISPLAYS; SPEECH SYNTHESIS; DEAFNESS; BLINDNESS; **DISABLED** PERSONS; MICROCOMPUTERS; ALGORITHM; KEYBOARDS; LANGUAGE RECOGNITION; ENERGY SUPPLY

21/3,K/15 (Item 1 from file: 99)  
DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs  
(c) 2004 The HW Wilson Co. All rts. reserv.

1672842 H.W. WILSON RECORD NUMBER: BAST94045949

**Reading the silver screen**

Clark, Joe;

Technology Review v. 97 (July '94) p. 18-19

DOCUMENT TYPE: Feature Article ISSN: 0040-1692

...ABSTRACT: station WGBH, are fine-tuning 3 technologies designed to break the cinematic sound barrier for **deaf** and **hard-of-hearing** moviegoers. The NCAM began its Motion Picture Access Project in late 1992, after receiving numerous...

...of 1993 working on prototype movie-captioning systems. The resulting trial technologies are virtual vision **glasses** , which allow moviegoers to watch films through **glasses** that **display** "floating" captions; a seatback **display** , which displays captions on a device mounted on the back of the seat in front of the viewer; and a rearview **display** , which

displays captions projected from the rear of the theater onto a plexiglass screen, through...

DESCRIPTORS: Deaf , Apparatus for...

;

21/3,K/16 (Item 1 from file: 248)

DIALOG(R)File 248:PIRA

(c) 2004 Pira International. All rts. reserv.

00181100 Pira Acc. Num.: 8452276 Pira Abstract Numbers: 05-89-00044

**Title: MATSUSHITA UNVEILS COMPUTER SPEECH TRAINING SYSTEM**

Authors: Anon

Source: Asahi Evening News 9 Aug. 1988

Publication Year: 1988

Document Type: Journal Article; Newspaper Article

Language: English

...Abstract: monitor and attachments for analysing vocal cord and nasal vibrations and tongue positions. The student **wears** a headset with a microphone and sensors, and tries to imitate the teacher's vocalisation...

... used to master pitch, breathing, nasalisation, etc. Results have shown that the method helps the **hearing - impaired** improve their speech twice as quickly as with conventional methods. Matsushita expects to sell 100...

...Descriptors: SCREEN - **DISPLAY** ;

?

25/3,K/1 (Item 1 from file: 8)

DIALOG(R)File 8: Ei Compendex(R)

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04741090 E.I. No: EIP97073728215

**Title: Practical methodology for speech source localization with microphone arrays**

Author: Brandstein, Michael S.; Silverman, Harvey F.

Corporate Source: Harvard Univ, Cambridge, MA, USA

Source: Computer Speech & Language v 11 n 2 Apr 1997. p 91-126

Publication Year: 1997

CODEN: CSPLEO ISSN: 0885-2308

Language: English

...Abstract: a variety of uses in speech data acquisition systems that include teleconferencing, speech recognition and **speaker identification**, sound capture in adverse environments, and biomedical devices for the **hearing impaired**. It provides high-quality signals from the desired source **location** while simultaneously attenuating interfering talkers and ambient noise. It has the capabilities of automatic detection, localization and tracking of active talkers in its receptive **area**. The specific application of speech source localization systems and its algorithms for estimating the position of speech sources in a real- **room** environment given limited computational resources are presented. Refs.

25/3,K/2 (Item 1 from file: 35)

DIALOG(R)File 35:Dissertation Abs Online

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01451260 ORDER NO: AADAA-I9540732

**A FRAMEWORK FOR SPEECH SOURCE LOCALIZATION USING SENSOR ARRAYS (REAL TIME TRACKING)**

Author: BRANDSTEIN, MICHAEL SHAPIRO

Degree: PH.D.

Year: 1995

Corporate Source/Institution: BROWN UNIVERSITY (0024)

Source: VOLUME 56/08-B OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 4485. 166 PAGES

...a variety of uses in speech data acquisition systems. Applications include teleconferencing, speech recognition and **speaker identification**, sound capture in adverse environments, and biomedical devices for the **hearing impaired**. An array of microphones has a number of advantages over a single-microphone system. It may be electronically aimed to provide a high-quality signal from a desired source **location** while simultaneously attenuating interfering talkers and ambient noise, does not necessitate local **placement** of transducers or encumber the talker with a hand-held or head-mounted microphone, and does not require physical movement to alter its **direction** of reception. Additionally, it has capabilities that a single microphone does not; namely automatic detection, localization, and tracking of active talkers in its receptive **area**. A fundamental requirement of sensor array systems is the ability to **locate** and track a speech source. An accurate fix on the primary talker, as well as...

...any interfering talkers or coherent noise sources, is necessary to effectively steer the array. Source **location** data may also be used for purposes other than beamforming; e.g. aiming a camera in a video-conferencing system. In addition to high accuracy, the **location** estimator must be capable of a high update rate as well as being

computationally non...

...application of source localization algorithms for estimating the position of speech sources in a real **room** environment given limited computational resources. The theoretical foundations of a speech source localization system are...

...the derivation and evaluation of an appropriate time-delay estimator and a novel closed-form **locator**. Finally, results obtained from several real systems are presented to illustrate the effectiveness of the...

25/3,K/3 (Item 1 from file: 144)  
DIALOG(R)File 144:Pascal  
(c) 2004 INIST/CNRS. All rts. reserv.

15090792 PASCAL No.: 01-0250495  
**Localization of sound by binaural cochlear implant users**  
PREECE John P; TYLER Richard S; RUBINSTEIN Jay T; GANTZ Bruce J; VAN  
HOESEL Richard J M  
Dept. of Otolaryngol., Univ. of Iowa, Iowa City, IA 52242; CRC for  
Cochlear Implant and Hearing Aid Innovation, E. Melbourne 3002, Australia  
Journal: The Journal of the Acoustical Society of America, 2001-05-01,  
109 (5) p. 2377  
Language: English

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...CI24M implant from Cochlear Corporation. These patients demonstrated a difference in either length of time **deaf** before implantation, preimplant thresholds, or both. Patients were tested in an anechoic **room**. Signals were four 200-ms bursts of broadband noise separated by 55 ms of silence...

...The patient was seated 1.5 m from the speakers and responded orally with a **speaker** number. The level of individual stimuli was varied randomly over an 8-dB range with an average level of presentation of 65-dB SPL measured at the approximate **location** of the center of the patient's head. Patients were tested with each ear separately and with both ears together. The...  
?

27/3,K/1 (Item 1 from file: 8)

DIALOG(R) File 8: Ei Compendex(R)

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06861917 E.I. No: EIP04218175013

**Title: University of Wyoming, College of Engineering, Undergraduate Senior Design Project: The Talking Hand**

Author: Barnes, Jennifer R.; Amin, Ruchik; Barrett, Steven F.

Corporate Source: Dept. of Elec. and Comp. Engineering University of Wyoming, Laramie, WY, United States

Source: Biomedical Sciences Instrumentation v 40 2004. p 447-452

Publication Year: 2004

CODEN: BMSIA7 ISSN: 0067-8856

Language: English

**Title: University of Wyoming, College of Engineering, Undergraduate Senior Design Project: The Talking Hand**

...Abstract: finger produces when signing a letter of the alphabet. The glove detects and outputs in **text** the letter of the alphabet being signed as the **wearer** signs the different letters. The amount of bend causes a change in resistance, which in...

...network, the input voltage to the data acquisition card will result in that letter being **displayed** in front on the monitor of the computer. The computer is then programmed to take the **text** that is **displayed** on the monitor and run it out of the PC into a store bought chipset that will convert the **text** to speech. Therefore, a person will be able to put on this glove, sign all twenty-six letters of the alphabet, see the letter they are **currently** signing output on the monitor, and hear it spoken in a pre-recorded voice.

Identifiers: **Wearer** signs; Finger  
?

**30/3,K/1 (Item 1 from file: 2)**

DIALOG(R)File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

6052139 INSPEC Abstract Number: A9822-0150-010, C9811-7250-019

**Title: Low-cost, high-tech experiments for educational physics**

Author(s): Jodl, H.-J.; Eckert, B.

Author Affiliation: Kaiserslautern Univ., Germany

Journal: Physics Education vol.33, no.4 p.226-35

Publisher: IOP Publishing,

Publication Date: July 1998 Country of Publication: UK

CODEN: PHEDA7 ISSN: 0031-9120

SICI: 0031-9120(199807)33:4L:226:CHTE;1-4

Material Identity Number: P016-98004

Language: English

Subfile: A C

Copyright 1998, IEE

...Abstract: toaster (pyrometer) microwave oven IR motion detector IR remote control (PI/) joystick LCD (liquid crystal **display**) LED (light-emitting diode) level control loudspeaker electrostatic **speaker** piezoelectric metal detector magnetic tools mobile phone photocopier Xerox principle thermostatic principle piezo fuse pocket...

... building materials catalyser CD (compact disk) ceramics contact lenses drink mixes fibreglass Gore-Tex/Sympatex **glasses** phototropic (self-darkening) sunglasses/UV protection high-T, superconductor in-line skates insulated windows IR...

... packing and insulating material polarizing foil razor blade reflecting oil shark's skin surface-coated **glasses** **text** marker/UV colours (fluorescence).

...Identifiers: liquid crystal **display** ; ...

...electrostatic **speaker** ; ...

...piezoelectric **speaker** ; ...

...Gore-Tex **glasses** ; ...

...Sympatex **glasses** ;

**30/3,K/2 (Item 1 from file: 34)**

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

(c) 2004 Inst for Sci Info. All rts. reserv.

08583656 Genuine Article#: 303ZQ No. References: 7

**Title: Communication using a telephone while wearing a respirator**

Author(s): Johnson AT (REPRINT) ; Scott WH; Lausted CG; Coyne KM; Sahota MS ; Johnson MM; Yenikomshian G; Caretti DM

Corporate Source: UNIV MARYLAND,DEPT BIOL RESOURCES ENGN/COLLEGE

PK//MD/20742 (REPRINT); UNIV MARYLAND,DEPT SPEECH & HEARING SCI/COLLEGE

PK//MD/20742; USA,EDGEWOOD RES DEV & ENGN CTR/ABERDEEN PROVING

GROUND//MD/21010

Journal: AMERICAN INDUSTRIAL HYGIENE ASSOCIATION JOURNAL, 2000, V61, N2 ( MAR-APR), P264-267

ISSN: 0002-8894 Publication date: 20000300

Publisher: AMER INDUSTRIAL HYGIENE ASSOC, 2700 PROSPERITY AVE #250, FAIRFAX, VA 22031-4307

Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

**Title: Communication using a telephone while wearing a respirator**

**Abstract:** Respirators have been found to degrade communication effectiveness when **wearers** speak face-to-face. However, little is known about communication effectiveness when using the telephone and **wearing** a respirator. Eleven pairs of subjects were asked to pronounce and identify **words** chosen from Modified Rhyme Test lists. Each word appeared on a computer **screen** in one room and the **speaker** said the word into the telephone. The listener in another room identified the word and...

30/3,K/3 (Item 1 from file: 483)

DIALOG(R)File 483:Newspaper Abs Daily

(c) 2004 ProQuest Info&Learning. All rts. reserv.

07083235 SUPPLIER NUMBER: 249887061

**How Masks Can Amplify as Well as Conceal**

Smith, Roberta

New York Times, p 3

Dec 3, 2002

ISSN: 0362-4331

NEWSPAPER CODE: NYT

DOCUMENT TYPE: Commentary; Newspaper article

LANGUAGE: English

RECORD TYPE: ABSTRACT

...ABSTRACT: Artists like Tracey Emin, Richard Billingham and Sam Taylor-Wood, the life that interests Ms. **Wearing** is distinctly British. (The Britishness of contemporary British art is a big subject.) But Ms. **Wearing** 's work often achieves a fusion of elegance, economy and urgency that seems beyond the...

...food into extravagantly bitter sexual satire. In her video ''2 Into 1'' from 1997, Ms. **Wearing** uses real faces as masks. Here a worn-out single mother and her exceptionally bright...

...being interviewed by a psychiatrist or social worker. But there has been a switch: their **words** have been transcribed and then perfectly lip-synched by the person being discussed, not by the original **speaker** . The boys' hurtful **words** about their mother's teeth, speech, dress and forgetfulness come out of their mother's...

...hate.'' ''Broad Street'' (2001), the largest, most recent video piece in the exhibition, indicates Ms. **Wearing** 's interest in more elaborate narratives. Named for the main artery of Soho in London, where thousands of young people go clubbing every weekend, this piece is a five- **screen** projection that covers the interior of a large gallery. It follows no single character, but...

NAMED PERSONS: **Wearing** , Gillian  
?



33/3,K/1 (Item 1 from file: 8)

DIALOG(R) File 8: Ei Compendex(R)

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01757143 E.I. Monthly No: EI8505036833 E.I. Yearly No: EI85051481

**Title:** WEARABLE **TACTILE INTONATION DISPLAY FOR THE DEAF** .

Author: Boothroyd, Arthur

Corporate Source: City Univ of New York, Speech & Hearing Sciences  
Graduate Sch, New York, NY, USA

Source: IEEE Transactions on Acoustics, Speech, and Signal Processing v  
ASSP-33 n 1 Feb 1985 p 111-117

Publication Year: 1985

CODEN: IETABA ISSN: 0096-3518 ISBN: 0-13-782178-6

Language: ENGLISH

**Title:** WEARABLE **TACTILE INTONATION DISPLAY FOR THE DEAF** .

Abstract: A **wearable** device is described which represents the  
fundamental frequency of voiced sounds as the locus of...

...synchronous vibrotactile stimulation of the skin. The pitch extractor,  
which accepts inputs from either a **microphone** or an accelerometer, uses a  
combination of low-pass filtering and peak detection to generate...

...principal intonation contours of English. The potential value of this  
device in the rehabilitation of **hearing - impaired** children is currently  
under investigation. 25 refs.

Identifiers: TACTILE INTONATION **DISPLAY FOR THE DEAF** ;  
PITCH-SYNCHRONOUS VIBRATORY STIMULATION OF THE SKIN

?

40/3,K/1 (Item 1 from file: 1)

DIALOG(R)File 1:ERIC

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01045098 ERIC NO.: ED379966 CLEARINGHOUSE NO.: FL800898

ESL Instruction for Learning **Disabled** Adults. ERIC Digest.

Schwarz, Robin; Burt, Miriam;

CORP. SOURCE: Adjunct ERIC Clearinghouse for ESL Literacy Education,  
Washington, DC. (BBB31499); National Clearinghouse for ESL Literacy  
Education, Washington, DC. (BBB31500)

4pp.

January 1995 (19950100)

SPONSORING AGENCY: Office of Educational Research and Improvement (ED),  
Washington, DC. (EDD00036)

ESL Instruction for Learning **Disabled** Adults. ERIC Digest.

...or multiple skills and sometimes appearing in the second language when not in the first. **Identification** of adult ESL learners as having LD can be stigmatizing, and can be confused with...

...are preferable. These include a native-language interview, portfolio assessment, phonological tests, and vision and **hearing** screening.

Instruction should be highly structured and predictable, include opportunities for using several senses and...

...not content, and reinforce main ideas and concepts through rephrasing.

Use of technology in this **area** is not well documented. Two programs funded to research assessment and teaching techniques for this...

...due to learning disabilities (Lowry, 1990; Osher & Webb, 1994). An Interagency Committee on Learning Disabilities **identifies** persons of average or above average intelligence who encounter significant difficulties with listening, speaking, reading, writing, reasoning, or mathematical abilities or with social skills as learning **disabled** (Langner, 1993, Osher & Webb, 1994). Little is known about how these disabilities affect adults studying...

...questions: How do learning disabilities affect the progress of adults learning English? How can learning **disabled** adults be **identified** and assessed? What kinds of instructional methods work best with this population? What kind of...

...not be available to the learner in the new language (Ganschow & Sparks, 1993; Lowry, 1990).

#### **IDENTIFYING** ESL ADULTS WITH LEARNING DISABILITIES

It is difficult to **determine** how many adult ESL learners have learning disabilities. Estimates of the total U.S. adult population who are learning **disabled** range from as low as 3% to as high as 80% (Langner, 1993; Lowry, 1990; McCormick, 1991; Osher & Webb, 1994). The percentage of learning **disabled** students in adult education classes may exceed that of the population as a whole (Lowry...

...is not known, however, if this is true in adult ESL classes.

The process of **identifying** anyone--adult, child, native English **speaker**, or ESL learner--as learning **disabled** can be stigmatizing (McCormick, 1991). Therefore, educators stress weighing the advantages of **identifying** adults as learning **disabled** (making them eligible for special instruction, resources, and services) against the possible stigma of the

DESCRIPT Adult Students; Classroom Techniques; Diagnostic Tests;  
\*English Language); \* **Identification** ; Instructional Materials;  
Lang Learning Disabilities; \*Literacy Education; Screening  
Test Instruction; Student Evaluation...

40/ from file: 1)

DIA 1:ERIC

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0 ERIC NO.: ED388265 CLEARINGHOUSE NO.: IR017414

Captioning: Effects of Color-Coding and **Placement** in Synchronized  
Audio Presentations.

King, Cynthia M.; And Others

7pp.

1994 (19940000)

NOTES: In: Educational Multimedia and Hypermedia, 1994. Proceedings of  
ED-MEDIA 94--World Conference on Educational Multimedia and Hypermedia  
(Vancouver, British Columbia, Canada, June 25-30, 1994); see IR 017 359.

Digital Captioning: Effects of Color-Coding and **Placement** in Synchronized  
Text-Audio Presentations.

...digital media on computers, and discusses the results of a study on  
color-coding and **placement** of captions. Seventy-two students in the  
Preparatory Studies Program (PSP) at Gallaudet University (Washington,  
D.C.) participated in the study (PSP enrolls **deaf** and **hard-of-hearing**  
students and prepares them for college). A 15-minute segment from a Disney  
film was...

...in the study. Four versions of digital captions were prepared: (1)  
captions color-coded for **speaker identification**, centered at the bottom  
of the **screen**; (2) black and white captions, centered at the bottom of  
the **screen**; (3) color-coded captions with **placement** dependent on the  
**location** of the **speaker**; and (4) black and white captions with  
**placement** dependent on the **speaker's location**. Results **indicate** that  
comprehension is higher when captions are color-coded for **speaker**  
**identification** than when captions are black and white. There are no  
significant differences between centered captions and captions with  
variable **placement** dependent on **location** of the **speaker**. (AEF)

DESCRIPTORS: Assistive Devices (for **Disabled**); \*Captions; Case Studies;  
College Preparation; \*Comprehension; Computer Uses in Education; Films; \*  
**Hearing Impairments**; Higher Education; \*Special Needs Students

40/3,K/3 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

03864259 INSPEC Abstract Number: B91028226, C91030499

**Title: Vowel articulation training aid for the deaf**

Author(s): Zahorian, S.A.; Venkat, S.

Author Affiliation: Dept. of Electr. & Comput. Eng., Old Dominion Univ.,  
Norfolk, VA, USA

Conference Title: ICASSP 90. 1990 International Conference on Acoustics,  
Speech and Signal Processing (Cat. No.90CH2847-2) p.1121-4 vol.2

Publisher: IEEE, New York, NY, USA

Publication Date: 1990 Country of Publication: USA 5 vol. 2970 pp.

U.S. Copyright Clearance Center Code: CH2847-2/90/0000-1121\$01.00

Conference Sponsor: IEEE

Conference Date: 3-6 April 1990      Conference Location: Albuquerque, NM, USA

Language: English  
Subfile: B C

**Title: Vowel articulation training aid for the deaf**

**Abstract:** The signal processing strategy for a computer-based vowel articulation training aid for the **deaf** is described. This processing is based on a nonlinear/linear artificial neural network transformation of 16-channel filter bank data to a two-dimensional **space** which approximates an F1/F2 **space**. **Speaker** -independent vowel training **displays** have been developed with vowel **identity** cued by spatial **location** and color. Testing with both normally-hearing and hearing-impaired listeners **indicates** that the **display** is very easy to interpret and that the relationship between the pattern and the spoken vowel is consistent. The continuous relationship between phonetic perception and **display** patterns provides feedback for fine tuning of vocal tract settings.

Identifiers: real-time **visual** speech **display** ; ...

... **speaker** -independent speech recognition...

... **deaf** ;

40/3,K/4      (Item 1 from file: 35)

DIALOG(R)File 35:Dissertation Abs Online  
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01733180 ORDER NO: AADAA-I9959868

**The benefit to the deaf of real-time captions in a mainstream classroom environment**

Author: Steinfeld, Aaron

Degree: Ph.D.

Year: 1999

Corporate Source/Institution: The University of Michigan (0127)

Source: VOLUME 61/02-B OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 1023. 191 PAGES

**The benefit to the deaf of real-time captions in a mainstream classroom environment**

The goal of this study was to **determine** if real-time captions (RTC) benefit both hearing and **deaf** students and if the format of the **display** has an effect on verbal comprehension. Comprehension was measured with an established working memory test that has been shown to be sensitive to perception difficulty.

For the first experiment, **deaf** and hearing subjects were found to have similar abilities to recall written verbal material. RTC produced improved performance for both groups. Analysis of the RTC conditions **identified** significant effects for hearing type (hearing students performed 9.8% better than **deaf** students) and the number of captioned lines (four lines were 4.3% better than two lines) but not **display location**. The conditions with four lines resulted in better performance than those with two lines, especially...

...found to have an impact only during 3 and 4-way interactions including hearing type (**deaf**, hearing) and the number of lines the captions lagged behind the **speaker**'s voice (0, 1, 2). Performance was seen to improve slightly as sentence lag increased except for **deaf** subjects at 200 wpm. Under the 160 wpm conditions, it was possible to predict performance of the

**deaf** subjects from the hearing subjects by applying an adjustment factor derived from the first experiment...

...suggested that, under most scenarios, subject preference was correlated with performance. The exception was that **deaf** subjects tended to dislike conditions with sentence lag despite higher performance.

Two aggregate factors, buffer...

...of lines, the rate of presentation, and the sentence lag between the captions and the **speaker** were all found to have an effect. However, **location** did not show an effect.

40/3,K/5 (Item 2 from file: 35)  
DIALOG(R)File 35:Dissertation Abs Online  
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01292146 ORDER NO: AAD93-14175

**WAVE COLLATION VISUAL SPEECH DISPLAY ( DEAF SPEECH)**

Author: MITCHELL, PHILIP ANDREW

Degree: PH.D.

Year: 1992

Corporate Source/Institution: BOSTON COLLEGE (0016)

Source: VOLUME 54/01-B OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 477. 142 PAGES

**WAVE COLLATION VISUAL SPEECH DISPLAY ( DEAF SPEECH)**

The wave collation **display** complements previous research on **deaf** speech reception devices in two ways. First, most research has used the tactile modality; with...

...technology, however, make possible a wide-ranging exploration of alternative speech processing approaches. The collation **display**, as a minimally-processed speech **display**, is a first step in this exploration, providing a baseline against which more sophisticated processing...

...speech, a fixed window is used. This compacting of the waveform reduces such a speech **display** to a manageable size and at the same time, the alignment of successive frames makes...

...contour and formant transitions, more salient than in the original waveform.

Evaluation of the collation **display** included both analytic evaluation and training. Analytic evaluation was based on a perceptual sorting task using untrained subjects. Subjects sorted printed speech **display** tokens by **visual** similarity, both in a free sort and in a sort with fixed exemplars. The salience of speech information in the **display** is measured by the extent to which subjects with no training sort the tokens according...

...speech sound categories. Evaluations were performed for vowels, under varying conditions of token variability (single **speaker**, multiple speakers, multiple phonemic contexts), and for voiceless consonants. A single evaluation of spectrogram tokens, using the **identical** procedure, was performed for comparison. Results ranged from 73% correct (consonants) to 39% correct (multiple **speaker** vowels), all well above chance. Multidimensional scaling was used to interpret the perceptual **space** implied by sorting results.

As a first assessment of learnability of the **display**, four subjects

were trained on the same sorting tasks as above; aftering mastering these tasks...

**40/3,K/6 (Item 1 from file: 94)**

DIALOG(R)File 94:JICST-EPlus  
(c)2004 Japan Science and Tech Corp(JST). All rts. reserv.

05621410 JICST ACCESSION NUMBER: 03A0720480 FILE SEGMENT: JICST-E  
**Barrier-free Terminal for Information Support Service in Indoor Exhibition  
and Its Extentional Use for Outdoor Mobility Support Service**  
YAIRI(EGUCHI) IKUKO (1); OYAMA SHIN'YA (1); IGI SEIJI (1); NISHIMURA  
TAKUICHI (2)

(1) Communications Res. Lab., JPN; (2) National Inst. Advanced Industrial  
Sci. and Technol., JPN

Jinko Chino Gakkai Zenkoku Taikai Ronbunshu(Proceedings of the Annual  
Conference of JSAI), 2003, VOL.17th,NO.Pt.2, PAGE.3E1.05,1-4, FIG.11,  
REF.6

JOURNAL NUMBER: X0580AAA

UNIVERSAL DECIMAL CLASSIFICATION: 621.396 681.3.02+

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Conference Proceeding

ARTICLE TYPE: Short Communication

MEDIA TYPE: Printed Publication

ABSTRACT: This paper introduces a information support terminal which helps  
visally **disabled** people in indoor exhibition. The terminal consists  
of a bone-conduction **speaker** and CoBIT (Compact Battery-less  
Information Terminals) technology. We also propose an extentional usage  
of...

...DESCRIPTORS: **display** device...

...navigation( **location** )

...IDENTIFIERS: **hearing** **impaired** ;

**40/3,K/7 (Item 1 from file: 144)**

DIALOG(R)File 144:Pascal  
(c) 2004 INIST/CNRS. All rts. reserv.

11484517 PASCAL No.: 94-0322512

**Evaluation of a prototype beamforming binaural hearing aid**

TERRY Mark; SCHWEITZER Chris; LINDEMANN Eric; MELANSON John  
Audiologic, 6655 Lookout Rd., Boulder, CO 80301

The 127th Meeting of the Acoustical Society of America (Cambridge,  
Massachusetts (USA)) 1994-06-06/1994-06-10

Journal: Journal of the Acoustical Society of America, 1994-05, 95 (5)  
2991-2991

Language: English

Copyright (c) 1994 American Institute of Physics

... binaural aid uses an analysis-synthesis method where phase and  
magnitude cues, derived from microphone **placement** at the ears, are used  
to attenuate sounds from **locations** other than the 0-deg azimuth position.  
Normal hearing subjects, with their left ear occluded to reduce binaural  
cues, were used together with **hearing** **impaired** subjects for evaluation.  
Speech at 0 azimuth was presented via loudspeaker at 50 dBA. In...

... noise condition four talker babble at 35-deg azimuth (54 dBA) was mixed

with the **target** speech. The hearing aid was programmed to give a basic 6-dB/oct preemphasis. Overall gain for the **hearing impaired** subjects was initially adjusted to give approximately a 70% intelligibility score for the speech alone...

... instructed to maintain body and head position while responding to word choices shown on a **screen** positioned above the **target speaker**. Both subject groups showed a relative improvement in intelligibility and response times for the beam...

?

45/3,K/1 (Item 1 from file: 1)

DIALOG(R)File 1:ERIC

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01101238 ERIC NO.: ED456621 CLEARINGHOUSE NO.: EC308608

PEPNet 2000 Innovation in Education. Conference Proceedings (Denver, Colorado, April 5-8, 2000).

Jursik, Kay B., Ed.;

CORP. SOURCE: Postsecondary Education Consortium, Knoxville, TN. (BBB32954)

; Saint Paul Technical Coll., MN. Midwest Center for Postsecondary Outreach. (BBB35891); Rochester Inst. of Technology, NY. Northeast Technical Assistance Center. (BBB36447); Western Region Outreach Center and Consortia, Northridge, CA. (BBB36187)

283pp.

2001 (20010000)

SPONSORING AGENCY: Special Education Programs (ED/OSERS), Washington, DC. (EDD00017)

...best practices and most effective strategies for meeting the needs of postsecondary students who are **deaf** and **hard of hearing**.

**Presentations** address professional development, access to programs and services, teaching methods, using technology, student preparation for...

...personal development. Some of the 47 papers include: (1) "Navigating Our Institutions" (Sue Kroeger); (2) "**Words** upon a Window Pane: Opening Doors for the **Deaf** College Students" (Harry Lange and Bonnie Meath-Lang); (3) "Office of Special Education and Rehabilitative...

...Now) and Our Hope for the Future" (Ramon Rodriguez and others); (5) "Equal Access for **Deaf** and **Hard of Hearing** Students--The Evolving Nature of the Dialogue" (Jo Anne Simon); (6) "**Wearing** Two Hats: Things Educational Interpreters Need To Know When They Tutor" (Don Hastings and Kim...

...and Douglas Watson); (8) "Effect of Postsecondary Education on Reducing SSI and SSDI Payments to **Deaf** and **Hard of Hearing** College Graduates" (Gerald Walter and Jack Clarcq); (9) "Job Placement Services Enhancement Model" (Catherine Burland...

...Program in a Postsecondary Mainstream Institution To Meet the Needs of Multicultural Students Who Are **Deaf** or **Hard of Hearing** " (Catherine Burland and others); and (14) "Avenues to Literacy: Our Stories, Our Visions" (Barbara Boyd...

DESCRIPTORS: Access to Education; Assistive Devices (for **Disabled**); College Preparation; College Students; \*Deafness; Distance Education; **Hearing Aids**; \* **Hearing Impairments**; Higher Education; Interpreters; Job Placement; Minority Group Children; Outcomes of Education; Postsecondary Education; Professional Development...

45/3,K/2 (Item 2 from file: 1)

DIALOG(R)File 1:ERIC

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01043966 ERIC NO.: ED287260 CLEARINGHOUSE NO.: EC200568

Interactive Video for Special Education. Digest #440.

Elting, Susan; Eisenbarth, Janet;

CORP. SOURCE: ERIC Clearinghouse on Handicapped and Gifted Children, Reston, VA. (BBB11445)

3pp.



1986 (19860000)  
SPONSORING AGENCY: Office of Educational Research and Improvement (ED),  
Washington, DC. (EDD00036)

**TEXT** : The term "interactive video" is generally applied when a microcomputer is used in combination with...

...pits or reflective areas. Laser discs are resistant to nicks and scratches and immune to **wear** because nothing touches the encoded surface.

A laser disc can store 54,000 still frames...

...play the videodisc or manually branch to other locations on the disc. The rate of **presentation** can be varied. A Level I disc may be encoded to stop in a single...

...interactive videodisc projects in the field of education was the Media Development Project of the **Hearing Impaired** at the University of Nebraska. The discs included instruction in social studies, language development, and...

...the consequences of different responses to a problem or situation.

The California School for the **Deaf** at Riverside developed an interactive videodisc for teaching language and reading skills to **hearing impaired** students. The purpose of the program was to increase exposure to motivating language and reading...

...use of microcomputer and videodisc players to initiate communication at the very onset of instruction. **Deaf** and multiply handicapped children are included in the program. Preliminary results demonstrate a significant improvement...

...North 33rd Street, Lincoln, Nebraska 68503.

Barbara Peterson and Rod Browley, California School for the **Deaf**  
-Riverside, 3044 Horace Street, Riverside, California 92506.  
Dr. Ron Thorkildsen, Director of Technology and Administrative...

...J. and B. A. Peterson. "Interactive videodisc: An innovative instructional system." AMERICAN ANNALS OF THE **DEAF** 128(5) (1983): 685-700.

Evans, R. J. PRESERVICE SPECIAL EDUCATION: INTERACTIVE VIDEO SIMULATION, 1985...

...Nugent, G. C. and R. E. Stepp, Jr. "The potential of videodisc technology for the **hearing impaired** ." EXCEPTIONAL EDUCATION QUARTERLY 4(4) (1984): 104-113.

Olivier, W. P. VIDEODISCS IN VOC ED...

...M. and K. E. Nelson. "'Alligator eats cookie': Acquisition of writing and reading skills by **deaf** children using the microcomputer." APPLIED PSYCHOLINGUISTICS 6 (1985): 283-306.

Thorkildsen, R., K. Allard, and...

45/3,K/3 (Item 1 from file: 34)  
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

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00980821 Genuine Article#: FL416 No. References: 16

**Title: INITIAL FINDINGS WITH A WEARABLE MULTICHANNEL VIBROTACTILE AID**

Author(s): OSBERGER MJ; ROBBINS AM; TODD SL; BROWN CJ

Corporate Source: INDIANA UNIV, RILEY HOSP A-56, SCH MED, DEPT  
OTOLARYNGOL/INDIANAPOLIS//IN/46202; BREAKTHROUGH INC/IOWA  
CITY//IA/00000

Journal: AMERICAN JOURNAL OF OTOTOLOGY, 1991, V12, S, P179-182

Language: ENGLISH Document Type: ARTICLE (Abstract Available)

**Title: INITIAL FINDINGS WITH A WEARABLE MULTICHANNEL VIBROTACTILE AID**

Abstract: Data are presented on the speech perception performance of two profoundly **hearing - impaired** subjects while using a two-channel vibrotactile aid (Tactaid II) or a new, seven-channel instrument. Both subjects, one a profoundly **hearing - impaired** teenager and one a postlingually **deaf** adult, are experienced users of tactile aids. The data suggest better recognition of speech features, **words**, environmental sounds, and enhancement of lipreading skills with the new multichannel instrument than with the...

...Identifiers--SINGLE-CHANNEL; SENSORY AIDS; SPEECH; PERCEPTION; **DEAF**

Research Fronts: 89-2088 001 (TACTILE **PRESENTATION** OF VOICE  
FUNDAMENTAL-FREQUENCY; SPEECH PATTERN CONTRASTS; PROFOUNDLY **HEARING -**  
**IMPAIRED** CHILDREN; VIBROTACTILE AID; VIBRATORY STIMULI)

**45/3,K/4 (Item 1 from file: 35)**

DIALOG(R)File 35:Dissertation Abs Online

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0988991 ORDER NO: AAD88-07424

**VIBROTACTILE PRESENTATION OF VOICE FUNDAMENTAL FREQUENCY TO AID  
LIPREADING**

Author: EBERHARDT, SILVIO PETER

Degree: PH.D

Year: 1987

Corporate Source/Institution: THE JOHNS HOPKINS UNIVERSITY (0098)

Source: VOLUME 49/03-B OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 0858. 173 PAGES

**VIBROTACTILE PRESENTATION OF VOICE FUNDAMENTAL FREQUENCY TO AID  
LIPREADING**

...computer. In one study, six voice FO-to-vibrotactile transformations were compared. Subjects identified stressed **words** and intonation contours in a forced-choice procedure. The most successful transformations coded FO as...

...nine subjects tested with a single vibrator presenting FO were able to correctly lipread more **words** when the tactile signal was present.

Subjects who received FO and, on another vibrator, high...

...that estimates of the efficacy of tactile devices can best be made by providing profoundly **deaf** lipreaders with devices that they can use daily over long periods of time. With this intent, a **wearable** aid was developed that shows the feasibility of real-time pitch extraction.

?

47/3,K/1 (Item 1 from file: 1)

DIALOG(R)File 1:ERIC

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01045597 ERIC NO.: ED414669 CLEARINGHOUSE NO.: EC306014

Educating Children Who Are **Deaf** or **Hard** of **Hearing** : Auditory-Oral.

ERIC Digest #E551.

Stone, Patrick;

CORP. SOURCE: ERIC Clearinghouse on Disabilities and Gifted Education,  
Reston, VA. (BBB30988)

4pp.

August 1997 (19970800)

SPONSORING AGENCY: Office of Educational Research and Improvement (ED),  
Washington, DC. (EDD00036)

Educating Children Who Are **Deaf** or **Hard** of **Hearing** : Auditory-Oral.  
ERIC Digest #E551.

...overview of the auditory-oral approach used for developing communication skills in children who are **deaf** or **hard** of **hearing** . The approach is based on the fundamental premise that acquiring competence in spoken language is a realistic goal for children who are **deaf** or **hard** of **hearing** and is best developed in an environment in which spoken communication is used exclusively in...

...the auditory-oral approach that are critical to its success, including parent involvement, appropriate amplification ( **hearing** aids or cochlear implants), consistent quality speech training to develop speech production skills, developmentally appropriate language instruction, and a range of placement options; (2) the ability of most children with **hearing** loss to benefit from an auditory-oral approach; (3) the benefits of an auditory-oral...

...in spoken language, both receptively and expressively, is a realistic goal for children who are **deaf** or **hard** of **hearing** . Further, this ability is best developed in an environment in which spoken communication is used...

...needs are evaluated individually and monitored carefully over time with modifications being made as necessary. **Hearing** aids are the first choice; however, for children whose severity of loss limits the success of a **hearing** aid, cochlear implants are a viable option. Given the power and flexibility of current **hearing** aids and the availability of cochlear implants, it is realistic to expect almost every child with a **hearing** loss to hear speech at conversational levels.

Teaching children to use whatever **hearing** they have to further the acquisition of spoken language is basic to the auditory-oral...

...production skills (duration, loudness, pitch, and articulation) requires skilled teachers who work individually with children **wearing** appropriate amplification. Instruction is carried on at two complementary levels: the phonetic (developing proficiency with isolated syllables) and the phonologic (developing proficiency with **words** , phrases, and sentences). Skills are developed at the phonetic level and practiced immediately at the ...

...can choose an auditory-oral option?

Given current amplification technology (i.e., powerful and flexible **hearing** aids, FM systems, cochlear implants), it is reasonable and

realistic to expect most children with **hearing** loss to hear at conversational levels. This makes an auditory-oral education a possibility for...

...year-old levels, which is approximately double the national average for all children who are **deaf** .

What are the limitations of the auditory-oral approach?

As with every approach to educating children who are **deaf** or **hard** of **hearing** , not all children will be successful. Unanswered questions remain about auditory functioning (even some **hearing** children cannot use their **hearing** well), language processing (some children may also have additional language disorders), and learning styles (some...  
...from auditory-oral education will diminish. Fortunately, the availability of effective amplification removes severity of **hearing** loss as a limitation of auditory-oral education.

What are some questions to ask before...M., & Soland, C. (1990). Listening to learn. Washington, DC: Alexander Graham Bell Association for the **Deaf** .

Geers, A., & Moog, J. (1989). Factors predictive of the development of literacy in profoundly **hearing - impaired** adolescents. Volta Review, 91, 69-86.

Ling, D., & Ling, A. (1980). Aural habilitation. Washington, DC: Alexander Graham Bell Association for the **Deaf** .

Simmons-Martin, A. & Rossi, K. (1990). Parents and teachers: Partners in language development. Washington, DC: Alexander Graham Bell Association for the **Deaf** .

Stone, P. (1988). Blueprint for conversational competence Washington, DC: Alexander Graham Bell Association for the **Deaf** .

Alexander Graham Bell Association for the **Deaf** , 3417 Volta Place, NW, Washington, DC 20007, (202) 337-5220.

The Alexander Graham Bell Association for the **Deaf** is an international organization of parents, oral **hearing - impaired** adults, and professionals dedicated to ensuring that every child with a **hearing** loss grows up given the opportunity to learn spoken language.

Dr. Stone is Director of the Tucker-Maxon School for the **Deaf** in Portland, Oregon and a past president of the AG Bell Association for the **Deaf** and the Council on Education of the **Deaf** .

ERIC Digests are in the public domain and may be freely reproduced and disseminated. This...

DESCRIPTORS: Assistive Devices (for **Disabled** ); \*Auditory Training; Children; Cochlear Implants; \*Deafness; Elementary Secondary Education; **Hearing** Aids; \* **Hearing** **Impairments** ; Outcome Based Education; Parent Participation; Program Evaluation; \*Speech Skills; \*Verbal Communication

47/3,K/2 (Item 2 from file: 1)

DIALOG(R)File 1:ERIC

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01043920 ERIC NO.: ED284276 CLEARINGHOUSE NO.: CS210723

Dialogue Journals. ERIC Digest.

Staton, Jana;

CORP. SOURCE: ERIC Clearinghouse on Reading and Communication Skills,  
Urbana, IL. (BBB06849)

3pp.

1987 (19870000)

SPONSORING AGENCY: Office of Educational Research and Improvement (ED),  
Washington, DC. (EDD00036)

...of writing--narration, description, argumentation, even poetry; and  
(5) they let students read a personalized **text**, that is, the teacher's  
responses. Benefits of dialogue journals for young children, less  
proficient...

**TEXT** : Teachers who want to involve every student, even the most  
reluctant, in a literacy practice...

...discipline, and to involve each student in meaningful reading and  
writing. Extensive classroom observations and **text** analyses of dialogue  
journals have been conducted with both native and nonnative speakers of  
English...

...the playground or at home, reflect on why things happen, express  
personal feelings--in other **words**, they use written language in all the  
purposeful ways they use their spoken language.

WHAT...

...1987), and to use all the functions of language.

3. Opportunities to read a personalized **text** --that is, the teacher's  
written responses--about topics the student has initiated. The teacher...to  
be for Halloween.

Mrs. C.: I am going to be a farmer. I will **wear** overalls and a straw  
hat. Everybody has problems, Kelly. Some problems are big and some...

...Jean C. Slobodzian, and Jana Staton. IT'S YOUR TURN NOW! USING DIALOGUE  
JOURNALS WITH **DEAF** STUDENTS. Washington, D.C.: Gallaudet Pre-College  
Program, 1986.

Davis, Frances. "Why You Call Me...

...ED 247 607.

Staton, Jana. "Using Dialogue Journals for Developing Thinking, Reading,  
and Writing with **Hearing - Impaired** Students." VOLTA REVIEW 87 (1985):  
127-154.

Staton, Jana. "The Teacher as a Reading **Text** ." GREATER WASHINGTON  
READING COUNCIL JOURNAL 11, 1986.

Staton, Jana, Roger Shuy, Joy Kreeft, and Leslie...

47/3,K/3 (Item 3 from file: 1)

DIALOG(R)File 1:ERIC

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00507932 ERIC NO.: EJ285483 CLEARINGHOUSE NO.: EC152871

Development of Lexical Comprehension in a Profoundly **Deaf** Child Using a **Wearable** , Vibrotactile Communication Aid.  
Proctor, Adele; Goldstein, Moise H., Jr.  
Language, Speech, and Hearing Services in the Schools, v14 n3 p138-49 Jul 1983  
July 1983 (19830700)

Development of Lexical Comprehension in a Profoundly **Deaf** Child Using a **Wearable** , Vibrotactile Communication Aid.

Analysis of audio and videotapes revealed an increase from an understanding of 5 to 469 **words** after training with a vibrotactile device and traditional aural-oral teaching techniques in a **deaf** two-year-old. Compared to younger **hearing** children, she exhibited similar developmental patterns for rate of acquisition and stages of lexical comprehension...  
DESCRIPTORS: Communication Aids (for **Disabled** ); \*Deafness; Infants; \*Oral Language; \*Sensory Aids; Tactual Perception; Young Children

47/3,K/4 (Item 1 from file: 2)  
DIALOG(R)File 2:INSPEC  
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7485114 INSPEC Abstract Number: A2003-03-8736-009  
**Title: Intelligibility of modified speech for young listeners with normal and impaired hearing**  
Author(s): Uchanski, R.M.; Geers, A.E.; Protopopas, A.  
Author Affiliation: Central Inst. for the Deaf, Saint Louis, MO, USA  
Journal: Journal of Speech, Language, and Hearing Research vol.45, no.5 p.1027-38  
Publisher: American Speech-Language-Hearing Assoc,  
Publication Date: Oct. 2002 Country of Publication: USA  
CODEN: JSLRFW ISSN: 1092-4388  
SICI: 1092-4388(200210)45:5L.1027:IMSY;1-Q  
Material Identity Number: G224-2002-006  
U.S. Copyright Clearance Center Code: 1092-4388/02/4505-1027  
Language: English  
Subfile: A  
Copyright 2003, IEE

**Title: Intelligibility of modified speech for young listeners with normal and impaired hearing**  
...Abstract: modified speech could be extended to provide intelligibility improvements for children with severe-to-profound **hearing impairment** who **wear** sensory aids. In addition, the separate effects on intelligibility of slowing down and amplifying speech were evaluated. Two groups of listeners were employed: 8 severe-to-profoundly **hearing - impaired** children and 5 children with normal hearing. Four speech-processing conditions were tested: (1) natural...

...slowed and envelope-amplified speech. For each condition, three types of speech materials were used: **words** in sentences, isolated **words** , and syllable contrasts. To degrade the performance of the normal-hearing children, all testing was completed with a noise background. Results from the **hearing - impaired** children showed that all varieties of modified speech yielded either equivalent or poorer intelligibility than unprocessed speech. For **words** in sentences and isolated **words** , the slowing-down of speech had no effect on intelligibility scores whereas envelope amplification, both...

... Intelligibility results from normal-hearing children listening in noise were somewhat similar to those from **hearing - impaired** children. For isolated **words** , the slowing-down of speech had no effect on intelligibility whereas envelope amplification degraded intelligibility...

... on syllable discrimination. In summary, without extensive exposure to the speech processing conditions, children with **impaired hearing** and children with normal hearing listening in noise received no intelligibility advantage from either slowed...

...Identifiers: **impaired hearing** ;

47/3,K/5 (Item 2 from file: 2)

DIALOG(R)File 2:INSPEC

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6889078 INSPEC Abstract Number: A2001-10-8736-001

**Title: Speech perception with steeply sloping hearing loss: effects of frequency transposition**

Author(s): McDermott, H.J.; Dean, M.R.

Author Affiliation: Melbourne Univ., Vic., Australia

Journal: British Journal of Audiology vol.34, no.6 p.353-61

Publisher: Whurr Publishers,

Publication Date: Dec. 2000 Country of Publication: UK

CODEN: BJAYAC ISSN: 0300-5364

SICI: 0300-5364(200012)34:6L:353:SPWS;1-Q

Material Identity Number: F547-2001-001

U.S. Copyright Clearance Center Code: 0300-5364/2000/340353+08\$03.50/0

Language: English

Subfile: A

Copyright 2001, IEE

Abstract: Six adults with a very steeply sloping high-frequency hearing loss listened to monosyllabic **words** in several conditions. In the first condition, their ability to identify phonemes with a signal...

...pass filters having comparable cut-off frequencies. In the remaining two conditions, four of the **hearing - impaired** subjects, and a control group of five normally hearing subjects, listened to speech in quiet...

... training, no significant differences were found between the two conditions in these subjects' recognition of **words** . It is concluded that such a frequency-transposition scheme, if implemented in a **wearable** hearing aid, would be unlikely to benefit people with a sloping **hearing impairment** of this type.

...Identifiers: **hearing - impaired** subjects...

...sloping **hearing impairment** ; ...

... **wearable** hearing aid

47/3,K/6 (Item 3 from file: 2)

DIALOG(R)File 2:INSPEC

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04372938 INSPEC Abstract Number: C9305-7850-006

**Title: READMAN: Independence for the deaf**

Author(s): Keller, C.

Conference Title: Proceedings of the Johns Hopkins National Search for

Computing Applications to Assist Persons with Disabilities (Cat. No.92TH0429-1) p.35-6

Publisher: IEEE Comput. Soc. Press, Los Alamitos, CA, USA

Publication Date: 1992 Country of Publication: USA xvi+221 pp.

ISBN: 0 8186 2730 1

U.S. Copyright Clearance Center Code: 0 8186 2730 1/92\$3.00

Conference Sponsor: IEEE; NSF; MCI Commun.; Microsoft

Conference Date: 1-5 Feb. 1992 Conference Location: Laurel, MD, USA

Language: English

Subfile: C

**Title: READMAN: Independence for the deaf**

Abstract: The author's device, a READMAN, is for helping the **deaf** be more independent when in public places such as tourist sites and museums. The READMAN consists of a computer controlled digital disc wired to a pair of '**glasses** .' The READMAN would be similar in function to a 'walkman' with audio tape and headphones except that the device would project **words** for the **deaf** to read. A compact disc would replace the tape and the '**glasses** ' would replace the headphones. This allows the person to look at the object of interest...

Identifiers: **deaf** ;

**47/3,K/7 (Item 4 from file: 2)**

DIALOG(R)File 2:INSPEC

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03356605 INSPEC Abstract Number: A89051113, B89034865

**Title: Phonemic information transmitted by a multichannel electrotactile speech processor**

Author(s): Blamey, P.J.; Cowan, R.S.C.; Alcantara, J.I.; Clark, G.M.

Author Affiliation: Melbourne Univ., R. Victorian Eye and Ear Hospital, Vic., Australia

Journal: Journal of Speech and Hearing Research vol.31, no.4 p. 620-9

Publication Date: Dec. 1988 Country of Publication: USA

CODEN: JSPHAH ISSN: 0022-4685

U.S. Copyright Clearance Center Code: 0022-4685/88/3104-0620\$01.00/0

Language: English

Subfile: A B

Abstract: A **wearable** electrotactile speech processor was evaluated in a study with seven normally **hearing** and four **hearing - impaired** subjects. The processor estimated the fundamental frequency, the second-formant frequency, and amplitude of the...

... was shown to provide useful information for the recognition of phonemes in closed sets of **words** using tactile information alone. The device also supplemented lipreading to improve the recognition of open-set **words** . The recognition of duration and first- and second-formant frequencies of vowels and the recognition...

...consonants. These results indicate that the device may be useful to both severely and profoundly **hearing - impaired** people.

...Identifiers: profound **hearing impairment** ; ...

...severe **hearing impairment** ;

**47/3,K/8 (Item 5 from file: 2)**



DIALOG(R)File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

03233671 INSPEC Abstract Number: A88126133, B88068475

**Title: Preliminary evaluation of a multichannel electrotactile speech processor**

Author(s): Cowan, R.S.C.; Alcantara, J.I.; Blamey, P.J.; Clark, G.M.

Author Affiliation: Dept. of Otolaryngology, Melbourne Univ., Vic., Australia

Journal: Journal of the Acoustical Society of America vol.83, no.6  
p.2328-38

Publication Date: June 1988 Country of Publication: USA

CODEN: JASMAN ISSN: 0001-4966

U.S. Copyright Clearance Center Code: 0001-4966/88/062328-11\$00.80

Language: English

Subfile: A B

...Abstract: using both open-and closed-set materials, was carried out with four severely to profoundly **hearing impaired** adults and seven normally hearing subjects to assess performance of a **wearable** eight-channel electrotactile aid (Tickle Talker). Significant increases in speechtracking rates were noted for all...

... 70 h of training, mean tracking rate in the tactile plus lipreading condition was 55 **words** per minute (WPM), as compared with 36 WPM for lipreading alone, for the normally hearing group. For the **hearing impaired** group, the mean tracking rate in the aided condition was 37 WPM, as compared with...

... for lipreading alone, following 35 h of training. Performance scores on Central Institute for the **Deaf** (CID) everyday sentences, Consonant Nucleus consonant (CNC) **words**, and closed-set vowel and consonant identification were significantly improved when using the electrotactile aid...

... on consonant and vowel identification and on elements of the Minimal Auditory Capabilities Battery. Two **hearing impaired** subjects have used the device satisfactorily in the home environment.

...Identifiers: **hearing impaired** ;

47/3,K/9 (Item 6 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

02191196 INSPEC Abstract Number: B84011015

**Title: Telephone subsets**

Journal: Electrical Communication vol.58, no.1 p.54-9

Publication Date: 1983 Country of Publication: UK

CODEN: ELCMAX ISSN: 0013-4252

Language: English

Subfile: B

...Abstract: included credit card authorization, handsfree operation, abbreviated dialing, and a telephone for use by the **deaf** that displays written messages input through the keys. An attractive adjunct to the telephone is...

... STC wide-area radiopager, a very compact device that uses tone patterns to alert its **wearer** and identify call origin, urgency or specific action

to be taken. A recent innovation is...

...by speaking into the telephone, with spoken responses to guide the user. As with the **text** telephone, this has potential applications for handicapped subscribers.

...Identifiers: **text** telephone

**47/3,K/10** (Item 1 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci  
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11517708 Genuine Article#: 662TE No. References: 10

**Title: Auditory rehabilitation effects on speech lateralization in hearing - impaired listeners**

Author(s): Philibert B; Collet L; Vesson JF; Veuillet E (REPRINT)

Corporate Source: Univ Lyon 1, Unite UMR 5020, CNRS, Lab Neurosci & Syst Sensoriels, 50 Av Tony Garnier/F-69366 Lyon 07//France/ (REPRINT); Univ Lyon 1, Unite UMR 5020, CNRS, Lab Neurosci & Syst Sensoriels, F-69366 Lyon 07//France/; Univ Lyon 1, GDR Protheses Audit 2213, CNRS, Hospices Civils Lyon, F-69366 Lyon//France/

Journal: ACTA OTO-LARYNGOLOGICA, 2003, V123, N2, P172-175

ISSN: 0001-6489 Publication date: 20030000

Publisher: TAYLOR & FRANCIS AS, CORT ADELERSGT 17, PO BOX 2562, SOLLI, 0202 OSLO, NORWAY

Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

**Title: Auditory rehabilitation effects on speech lateralization in hearing - impaired listeners**

...Abstract: study was to explore the consequences of HA use on interaural asymmetry in symmetrical sensorineural **hearing impairment** patients before and 4 months after binaural HA fitting.

Material and Methods-Two types of...

...made without the use of the HA, and the listeners were all first-time HA wearers .

Results-Dichotic listening scores for **words** improved significantly over the course of HA use. Moreover, the dichotic listening task for syllables...

**47/3,K/11** (Item 2 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci  
(c) 2004 Inst for Sci Info. All rts. reserv.

03592755 Genuine Article#: PQ271 No. References: 21

**Title: EVALUATION OF A NEW SPECTRAL PEAK CODING STRATEGY FOR THE NUCLEUS 22 CHANNEL COCHLEAR IMPLANT SYSTEM**

Author(s): SKINNER MW; CLARK GM; WHITFORD LA; SELIGMAN PM; STALLER SJ; SHIPP DB; SHALLOP JK; EVERINGHAM C; MENAPACE CM; ARNDT PL; ANTOGENELLI T; BRIMACOMBE JA; PIJL S; DANIELS P; GEORGE CR; MCDERMOTT HJ; BEITER AL

Corporate Source: WASHINGTON UNIV, SCH MED, DEPT OTOLARYNGOL HEAD & NECK SURG, 517 S EUCLID AVE, CAMPUS BOX 8115/ST LOUIS//MO/63110; WASHINGTON UNIV, DEPT OTOLARYNGOL/ST LOUIS//MO/63130; UNIV MELBOURNE, COOPERAT RES CTR, DEPT OTOLARYNGOL/PARKVILLE/VIC 3052/AUSTRALIA/; COCHLEAR PROPRIETARY LTD/LANE COVE/NSW/AUSTRALIA/; COCHLEAR CORP/ENGLEWOOD//CO/00000; UNIV TORONTO, SUNNYBROOK HLTH SCI CTR/TORONTO M5S 1A1/ONTARIO/CANADA/; DENVER EAR INST/DENVER//CO/00000; UNIV SYDNEY, COCHLEAR IMPLANT CLIN/SYDNEY/NSW 2006/AUSTRALIA/; ST PAULS

HOSP/VANCOUVER V6Z 1Y6/BC/CANADA/; MICHIGAN EAR INST/FARMINGTON  
HILLS//MI/00000; UNIV SOUTHAMPTON,S ENGLAND COCHLEAR IMPLANT CTR, INST  
SOUND & VIBRAT RES/SOUTHAMPTON SO9 5NH/HANTS/ENGLAND/  
Journal: AMERICAN JOURNAL OF OTOTOLOGY, 1994, V15, S2 (NOV), P15-27  
ISSN: 0192-9763  
Language: ENGLISH Document Type: ARTICLE (Abstract Available)  
Abstract: Sixty-three postlinguistically **deaf** adults from four  
English-speaking countries participated in a 17-week field study of  
performance...

...SPEAK), and the most widely used strategy, Multipeak (MPEAK), both of  
which are implemented on **wearable** speech processors of the Nucleus 22  
Channel Cochlear Implant System; MPEAK is a feature-extraction...

...70.1 percent; for medial consonants, 68.6 percent versus 56.6 percent;  
for monosyllabic **words**, 33.8 percent versus 24.6 percent; and for  
sentences, 77.5 percent versus 67...

**47/3,K/12 (Item 3 from file: 34)**  
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci  
(c) 2004 Inst for Sci Info. All rts. reserv.

02039018 Genuine Article#: JW387 No. References: 44  
**Title: RELIABILITY, SENSITIVITY AND VALIDITY OF MAGNITUDE ESTIMATION,  
CATEGORY SCALING AND PAIRED-COMPARISON JUDGMENTS OF  
SPEECH-INTELLIGIBILITY BY OLDER LISTENERS**  
Author(s): PURDY SC; PAVLOVIC CV  
Corporate Source: UNIV AUCKLAND,SCH MED,DEPT PHYSIOL,AUDIOL SECT,PRIVATE  
BAG 92019/AUCKLAND//NEW ZEALAND//; UNIV IOWA/IOWA CITY//IA/52242  
Journal: AUDIOLOGY, 1992, V31, N5 (SEP-OCT), P254-271  
ISSN: 0020-6091  
Language: ENGLISH Document Type: ARTICLE (Abstract Available)

...Abstract: comparisons. The 60+ age group was chosen as representative of  
the majority of hearing aid **wearers**. Speech recognition scores for  
Central Institute for the **Deaf** (CID) sentences and Northwestern  
University Auditory Test No. 6 (NU-6) **words** were also obtained. The  
speech was bandpass filtered using filter settings that produce a  
monotonic...

...Research Fronts: 2457 001 (ELECTROTACTILE SPEECH PROCESSOR;  
ELECTRICALLY EVOKED AUDITORY BRAIN-STEM RESPONSE; NUCLEUS MULTICHANNEL  
COCHLEAR IMPLANT; **HEARING - IMPAIRED LISTENERS**)  
90-4982 001 (FAMILIAL DATA; MAXIMUM-LIKELIHOOD-ESTIMATION OF THE  
INTRACLAS CORRELATION-COEFFICIENT)

**47/3,K/13 (Item 4 from file: 34)**  
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci  
(c) 2004 Inst for Sci Info. All rts. reserv.

01412722 Genuine Article#: GX373 No. References: 48  
**Title: WHAT CAN WE LEARN ABOUT HEARING-AIDS FROM COCHLEAR IMPLANTS**  
Author(s): TYLER RS  
Corporate Source: UNIV IOWA,DEPT OTOLARYNGOL HEAD & NECK SURG/IOWA  
CITY//IA/52242; UNIV IOWA,DEPT SPEECH PATHOL & AUDIOL/IOWA  
CITY//IA/52242  
Journal: EAR AND HEARING, 1991, V12, N6 (DEC), PS177-S186  
Language: ENGLISH Document Type: ARTICLE (Abstract Available)

Abstract: Cochlear implants have changed the rehabilitation of profoundly **hearing - impaired** patients. A wide range of performance is reported for postlingually **deaf** adult patients using multichannel (Nucleus and Ineraid) cochlear implants. For the 63 patients described here...

...measured as a percentage of the possible enhancement, and from 0 to 98% on understanding **words** in sentences. Prelingually **deaf** children also show benefit from their cochlear implants, but they require more time to obtain benefit than postlingually **deaf** children and adults. Experience with cochlear implants has suggested a few observations that could be...

...adjust properly; (4) fitting algorithms should focus on individuals rather than averages; (5) patients will **wear** a larger device if their handicap is great enough and if the improvement is sufficient...

...Research Fronts: 2457 001 (ELECTROTACTILE SPEECH PROCESSOR; ELECTRICALLY EVOKED AUDITORY BRAIN-STEM RESPONSE; NUCLEUS MULTICHANNEL COCHLEAR IMPLANT; **HEARING - IMPAIRED** LISTENERS)  
90-3612 001 (HEARING-AID SELECTION; PRESCRIPTIVE FITTING)

**47/3,K/14 (Item 5 from file: 34)**

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci  
(c) 2004 Inst for Sci Info. All rts. reserv.

00838515 Genuine Article#: FA468 No. References: 13

**Title: FACTORS THAT INFLUENCE THE BENEFIT FROM AMPLIFICATION IN THE ELDERLY**

Author(s): GATEHOUSE S

Corporate Source: GLASGOW ROYAL INFIRM, MRC INST HEARING RES, SCOTTISH  
SECT, ALEXANDRA PARADE/GLASGOW G31 2ER//SCOTLAND/

Journal: ACTA OTO-LARYNGOLOGICA, 1991, S476, P262-269

Language: ENGLISH Document Type: ARTICLE (Abstract Available)

...Abstract: factors have been proposed as potential determinants of the benefit that an individual receives from **wearing** a hearing aid. In this study, to quantify their relative importance, 54 individuals with symmetrical sensorineural **hearing impairment** were presented with and without simulated hearing aid characteristics on two measures of disability that were based on identifying **words** in sentences. Benefit was defined as the difference between the percentage of correct scores with...

**47/3,K/15 (Item 6 from file: 34)**

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci  
(c) 2004 Inst for Sci Info. All rts. reserv.

00809453 Genuine Article#: EY223 No. References: 25

**Title: ROLE OF A MULTICHANNEL ELECTROTACTILE SPEECH PROCESSOR IN A COCHLEAR IMPLANT PROGRAM FOR PROFOUNDLY HEARING - IMPAIRED ADULTS**

Author(s): COWAN RSC; BLAMEY PJ; SARANT JZ; GALVIN KL; ALCANTARA JI;  
WHITFORD LA; CLARK GM

Corporate Source: UNIV MELBOURNE, DEPT OTOLARYNGOL/PARKVILLE/VIC  
3052/AUSTRALIA/; COCHLEAR PTY LTD/LANE COVE/NSW/AUSTRALIA/

Journal: EAR AND HEARING, 1991, V12, N1, P39-46

Language: ENGLISH Document Type: ARTICLE (Abstract Available)

**Title: ROLE OF A MULTICHANNEL ELECTROTACTILE SPEECH PROCESSOR IN A COCHLEAR IMPLANT PROGRAM FOR PROFOUNDLY HEARING - IMPAIRED ADULTS**

Abstract: Four profoundly **hearing - impaired** adults who did not meet current selection criteria for implantation at the University of

Melbourne were each fitted with a **wearable** multichannel electrotactile speech processor (Tickle Talker). The subjects were evaluated with a test battery of...

...as compared with the tactually unaided for identification of vowels and consonants, on open-set **words** , open-set sentences, and on connected discourse tracking. Mean scores increased by 20% for vowels, 19% for consonants, 30% for open-set **words** , and 25% for open-set sentences when the Tickle Talker was used in a multimodal...

...term experience shows continuing improvement with additional experience with the device. These results demonstrate that **hearing - impaired** adults not meeting selection criteria for cochlear implantation may benefit from use of an electrotactile...

...highlight the potential benefits from integration of such devices into cochlear implant programs for profoundly **hearing - impaired** patients.  
...Identifiers--SENSORY AIDS; TACTILE AIDS; PERCEPTION; PROSTHESIS; **DEAF**

**47/3,K/16** (Item 1 from file: 35)  
DIALOG(R)File 35:Dissertation Abs Online  
(c) 2004 ProQuest Info&Learning. All rts. reserv.

01276050 ORDER NO: AAD93-03996

**THE EFFECT OF DAF ON SPEECH PRODUCTION OF POST-LINGUAL COCHLEAR IMPLANT USERS**

Author: GREY, POLLY SHIPP  
Degree: PH.D.  
Year: 1992  
Corporate Source/Institution: THE UNIVERSITY OF FLORIDA (0070)  
Source: VOLUME 53/10-B OF DISSERTATION ABSTRACTS INTERNATIONAL.  
PAGE 5136. 153 PAGES

...normal-hearing individuals are well documented and have also been reported in a group of **hearing - impaired** children using **hearing** aids. The eight subjects, five women and three men, ranged in aged from 31 to...

...suggesting the absence of a DAF effect. However, an apparent DAF effect was detected during **transcription** of the recorded data. This was investigated further by calculating effect size values between SAF...

...implant. These large effect sizes indicated that subjects took longer to read the passage when **wearing** either device and more vowel counting errors were made when **wearing** the cochlear implant. Effect size value comparisons between the two devices indicated a large DAF...

**47/3,K/17** (Item 2 from file: 35)  
DIALOG(R)File 35:Dissertation Abs Online  
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01162714 ORDER NO: AAD91-19968

**THE FIRST FIFTEEN DAYS OF HEARING AID WEARING : MICROANALYSIS OF INTERACTIONS BETWEEN A 15-MONTH-OLD HEARING - IMPAIRED CHILD AND HER FRENCH-CANADIAN FATHER (FIFTEEN MONTH OLD)**

Author: PATERSON, MARIETTA MALCOLM  
Degree: ED.D.  
Year: 1990  
Corporate Source/Institution: UNIVERSITY OF CINCINNATI (0045)

Source: VOLUME 52/02-A OF DISSERTATION ABSTRACTS INTERNATIONAL.  
PAGE 503. 336 PAGES

**THE FIRST FIFTEEN DAYS OF HEARING AID WEARING : MICROANALYSIS OF INTERACTIONS BETWEEN A 15-MONTH-OLD HEARING - IMPAIRED CHILD AND HER FRENCH-CANADIAN FATHER (FIFTEEN MONTH OLD)**

This study examined the dyadic communication styles of a 15 month old **hearing - impaired** child, \$K\$, and her French-Canadian father, \$F\$ while they engaged in social play in...

...In depth analysis of \$K\$'s vocalization production and use was based on perceptual phonetic **transcription** of the total vocalizations across all 3 videotapes using metaphonological categories after Oller (1980, 1986...

...the styles of communication reported in the child language literature and the styles in this **hearing - impaired** child-father dyad and that there would be changes in those styles across the fifteen days of the study.

Results demonstrated a rapid expansion of the **hearing impaired** child's vocalization patterns in the presence of amplification, which was characterized as telescoping across...

...play is a context which supports communication development in the presence of consistent hearing aid **wearing**. Implications of these sociolinguistic/ethnographic research findings for future research and for early intervention are...

**47/3,K/18 (Item 3 from file: 35)**

DIALOG(R)File 35:Dissertation Abs Online  
(c) 2004 ProQuest Info&Learning. All rts. reserv.

01139283 ORDER NO: NOT AVAILABLE FROM UNIVERSITY MICROFILMS INT'L.  
**THE DEVELOPMENT OF A SOUTH AFRICAN BIONIC EAR. (AFRIKAANS TEXT )**

Author: HANEKOM, JOHANNES JURGENS

Degree: M.ENG.

Year: 1990

Corporate Source/Institution: UNIVERSITY OF PRETORIA (SOUTH AFRICA) (6004)

Source: VOLUME 29/01 of MASTERS ABSTRACTS.  
PAGE 127.

**THE DEVELOPMENT OF A SOUTH AFRICAN BIONIC EAR. (AFRIKAANS TEXT )**

The bionic ear electrically stimulates the nerve-endings in the auditory system of profoundly **deaf** persons. The object of the stimulation is to elicit a sensation of sound. The bionic ear consists of a set of electrodes, implanted into the cochlea of the **deaf** person, and a externally **wearable** speech processor. The two main functions of the speech processor is to extract parameters important for understanding speech and to code these into a suitable pattern of electrical stimuli. A **deaf** patient, with electrodes implanted in his cochlea, took part as a volunteer in a series...

**47/3,K/19 (Item 4 from file: 35)**

DIALOG(R)File 35:Dissertation Abs Online  
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822823 ORDER NO: AAD83-22765

**TEACHING READING TO DISABLED READERS BY ELIMINATING THE NECESSITY FOR  
GRAPHEME TO PHONEME RECODING**

Author: MAXWELL, MARY J.

Degree: PH.D.

Year: 1983

Corporate Source/Institution: ST. JOHN'S UNIVERSITY (0192)

Source: VOLUME 44/06-A OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 1745. 80 PAGES

**TEACHING READING TO DISABLED READERS BY ELIMINATING THE NECESSITY FOR  
GRAPHEME TO PHONEME RECODING**

...reading achievement could be enhanced through bypassing the grapheme to phoneme deficit present in many **disabled** readers.

Previous research has found that good readers tend to be divided between students with...

...the teacher made materials. Of those tested, 60 students scored below the 40th percentile. These **disabled** readers were screened for eye movements. Eighty five percent were right hemisphere activators. Forty five ...

...25 half hour sessions. The Visual Facilitation Group's program involved using a series of **words** and pictures which the children matched and used to write sentences. The Auditory Facilitation Group's program involved **hearing** taped short passages while **wearing** headphones and following along with printed sheets. The Control Group received work identical or similar...

47/3,K/20 (Item 5 from file: 35)

DIALOG(R)File 35:Dissertation Abs Online

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820180 ORDER NO: AAD83-20194

**ASPECTS OF THE READING PROCESS IN DEAF SIGN LANGUAGE USERS: AN  
EXAMINATION OF WORD RECOGNITION AND COMPREHENSION THROUGH THE USE OF  
HOMOGRAPHS**

Author: ZORFASS, JUDITH MARILYN

Degree: ED.D.

Year: 1983

Corporate Source/Institution: HARVARD UNIVERSITY (0084)

Source: VOLUME 44/05-A OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 1405. 260 PAGES

**ASPECTS OF THE READING PROCESS IN DEAF SIGN LANGUAGE USERS: AN  
EXAMINATION OF WORD RECOGNITION AND COMPREHENSION THROUGH THE USE OF  
HOMOGRAPHS**

This study investigates word recognition, on-line comprehension, and comprehension monitoring in **deaf** sign language users by using ambiguous printed **words** (e.g., **glasses**) that have a distinctly different sign for each meaning. Forty-two readers aged 13-21...

...subjects read 60 paragraphs (one biased toward each meaning) with targets appearing as the final **words**. We asked: (1) Would subjects who knew two signs for targets produce each one for...

...generated cloze responses and labelled pictures to determine if they

knew signs for unrecognized printed **words** .

Each group recognized significantly more **words** in context than in isolation. Significant differences were found between groups with respect to the number of **words** recognized in Conditions 1 and 2 and contextual facilitation of word recognition. Signs for unrecognized...

...Comparisons are made between contextual facilitation of word recognition in skilled and unskilled hearing and **deaf** readers.

...

47/3,K/21 (Item 1 from file: 94)

DIALOG(R)File 94:JICST-EPlus

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05266623 JICST ACCESSION NUMBER: 02A0678182 FILE SEGMENT: JICST-E

**Analysis of 24 cochlear implants in children.**

TAKAGI AKIRA (1); UEDA YUKO (1); SATO SHIN'ICHI (1); OKABE SEIYA (1); UMEDA HIROO (1)

(1) Shizuoka Prefect. Gen. Hosp.

Otol Jpn, 2002, VOL.12,NO.3, PAGE.202-207, FIG.9, TBL.1, REF.10

JOURNAL NUMBER: Y0852BAY ISSN NO: 0917-2025

UNIVERSAL DECIMAL CLASSIFICATION: 616.21-089

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Original paper

MEDIA TYPE: Printed Publication

...ABSTRACT: we had 24 cases of cochlear implant in children. Among them, twenty cases were congenitally **deaf** and four were perilingually or postlingually **deaf** . Thirteen of the children were between 2 and 4 years old at the time of surgery. Three were less than 2 years old. Most of children were found **deaf** between 1 and 2 years old but six were found **deaf** after 2 years old. Twelve children had been **wearing** hearing aids more than 24 months. The development of auditory performance was plotted as a...

...years of ages showed the steady development reaching to the point they could understand 3 **words** sentence by 18 months after surgery. On the contrary it was very difficult for over 9 years old children to understand the **words** even after 2 years after the surgery. The hearing ability was limited to hear the...

...in pediatric age under 4 years, the good results can be expected even in congenitally **deaf** children in terms of the hearing and speech.  
(author abst.)

47/3,K/22 (Item 2 from file: 94)

DIALOG(R)File 94:JICST-EPlus

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00910314 JICST ACCESSION NUMBER: 89A0380775 FILE SEGMENT: JICST-E

**A case of craniodiaphyseal dysplasia.**

ITAGAKI YASUKO (1); NISHITANI HIROSHI (1); SAKAMOTO MASAYOSHI (2)

(1) National Sanatorium Utano Hospital; (2) Osaka City Univ., Faculty of Science of Living

No to Hattatsu(Brain & Development), 1989, VOL.21,NO.1, PAGE.69-73, FIG.4, TBL.1, REF.10

JOURNAL NUMBER: S0502BAU ISSN NO: 0029-0831



UNIVERSAL DECIMAL CLASSIFICATION: 616.71  
LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan  
DOCUMENT TYPE: Journal  
ARTICLE TYPE: Original paper  
MEDIA TYPE: Printed Publication

...ABSTRACT: optic atrophy was pointed out. At 2 years he was able to speak a few **words**, but thereafter no more increases in vocabulary was noticed. At 5 years, he was found to have hearing disturbance and after **wearing** a hearing-aid, he showed developmental catch up in language. He went to school for...

...lacrimation. The mouth was kept open to breathe. Neurological examination revealed bilateral anosmia, visual and **hearing impairment** and facial palsy. Also, spastic tetraparesis was noticed. Laboratory data revealed markedly elevated alkaline phosphatase...

47/3,K/23 (Item 1 from file: 99)  
DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs  
(c) 2004 The HW Wilson Co. All rts. reserv.

1614298 H.W. WILSON RECORD NUMBER: BAST98005290

#### **Talking heads**

Hecht, Jeff;  
New Scientist v. 156 (Nov. 15 '97) p. 19  
DOCUMENT TYPE: Feature Article ISSN: 0262-4079

...ABSTRACT: Technology has developed a prototype sign language translator that simultaneously translates American Sign Language into **words** spoken by a computer. The MIT project ultimately aims to develop an entire computerized translation...

...in a baseball cap. A miniature camera in the cap's peak would monitor the **wearer**'s hands and a miniature computer would interpret the signs and translate them into speech through a flat speaker, also mounted in the cap. This would allow **deaf** people to communicate more easily with hearing people who do not know sign language.

47/3,K/24 (Item 1 from file: 144)  
DIALOG(R)File 144:Pascal  
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11585171 PASCAL No.: 94-0471210

#### **Examining the effects of long-term experience using tactile supplements to speechreading**

AUER Edward T; BERNSTEIN Lynne E; COULTER David C  
Ctr. for Auditory and Speech Sci., Gallaudet Univ., 800 Florida Ave.,  
N.E., Washington, DC 20002; Coulter Assoc., Fairfax, VA 22031  
The 127th Meeting of the Acoustical Society of America (Cambridge,  
Massachusetts (USA)) 1994-06-06/1994-06-10  
Journal: Journal of the Acoustical Society of America, 1994-05, 95 (5)  
2987-2987  
Language: English

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...encodes the F2 range of frequencies. Subjects are adults with pre- and post-lingual profound **hearing impairments** and are each assigned to use

a single device for the duration of the study. Some of the subjects assigned to the single channel F0 device are also using a **wearable** version outside the laboratory. Comparisons of the effectiveness of all four devices over long-term...

... of on-line cognitive processing. To data, 10-20 percentage point improvements in identification of **words** in sentences have been observed with the single channel device.

English Descriptors: Experimental study; **HEARING IMPAIRMENT** ; Frequency analysis; Speech recognition; Mechanical vibrations; Voices; Adults

**47/3,K/25 (Item 1 from file: 483)**

DIALOG(R)File 483:Newspaper Abs Daily

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07049269 SUPPLIER NUMBER: 207731351

**WITH COCHLEAR IMPLANT, PAUL GIRL HEARS EVERYTHING FROM "HELLO" TO "GOODBYE"**

Billhartz, Cynthia

St. Louis Post - Dispatch, p E.1

Oct 8, 2002

NEWSPAPER CODE: SL

DOCUMENT TYPE: Feature; Newspaper article

LANGUAGE: English RECORD TYPE: ABSTRACT

...ABSTRACT: of Glen Carbon, was at Paul McCartney's concert in Chicago. As the first few **words** of "Hello Goodbye" spilled from his lips, tears welled in Jones' eyes. The next day, Jones' mother confirmed with a doctor that Debbie was so severely **hearing impaired** that the only sound she could identify was a dog barking. She had managed to...

...herself to read lips. PHOTO; Color Photo - Debbie Jones and her daughter Jamie (Jones), 20, **wear** their Beatles affections on their sleeves -- and fronts and backs, too. Debbie Jones says Jamie...

**47/3,K/26 (Item 2 from file: 483)**

DIALOG(R)File 483:Newspaper Abs Daily

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06930109 SUPPLIER NUMBER: 134336431

**Poignant story of modern China**

Curiel, Jonathan

San Francisco Chronicle, p D.2

Jul 10, 2002

NEWSPAPER CODE: SF

DOCUMENT TYPE: Movie Review-Favorable; Newspaper article

LANGUAGE: English RECORD TYPE: ABSTRACT

...ABSTRACT: subtitles. At the 4 Star.) The young boy (Gao Xin), who has trouble pronouncing simple **words** and has to **wear** hearing aids in both ears, is a frequent target of other kids, who bully him...

...economic changes that leave behind the disadvantaged. PHOTO; Gong Li plays the mother of a **deaf** child (Gao Xin) in Chinese director Sun Zhou's ""Breaking the Silence."

**47/3,K/27 (Item 3 from file: 483)**

DIALOG(R)File 483:Newspaper Abs Daily

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06852506 SUPPLIER NUMBER: 113788190

**Arts: Watch with Goya: How could a deaf artist paint pictures that seem to resonate with sound? Julia Blackburn retraced his footsteps and took up sign language classes to find out**

Blackburn, Julia

Guardian, p 2.10

Apr 15, 2002

ISSN: 0261-3077 NEWSPAPER CODE: MG

DOCUMENT TYPE: Commentary; Newspaper article

LANGUAGE: English RECORD TYPE: ABSTRACT

**Arts: Watch with Goya: How could a deaf artist paint pictures that seem to resonate with sound? Julia Blackburn retraced his footsteps and...**

...ABSTRACT: of the Guadalquivir river, which forms the backdrop for that wonderful portrait of the duchess **wearing** black lace and pointing with her index finger at the muddy sand on which is written the **words** "Only Goya". It was a curious pleasure to look at the old locust-bean tree...

**47/3,K/28 (Item 4 from file: 483)**

DIALOG(R)File 483:Newspaper Abs Daily

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06626137 SUPPLIER NUMBER: 83217344

**Friday Review: 'I LIKED IT IN JAIL': Lee Server 's exhaustive new biography of Robert Mitchum casts new light on the actor's arrest on a drugs charge in 1948. This is an exclusive extract**

Server, Lee

Guardian, p 8

Oct 5, 2001

ISSN: 0261-3077 NEWSPAPER CODE: MG

; Newspaper article

LANGUAGE: English RECORD TYPE: ABSTRACT

...ABSTRACT: features contorted; in the printed photo he was barely recognisable. The picture wrote its own **caption** : "A MAN IN THE GRIP OF DEMON DRUGS." Inside the station Mitchum and Ford were...

...would seem to have placed him beyond envy or hero worship; but to the scrawny, **hard -of- hearing** , whiny-voiced and paranoid Texan who felt compelled to offer money, fame, wedding rings, or...

...He and Perry Leibler rode up to Castaic in Howard's old sedan. Hughes was **wearing** a particularly old and sloppy outfit, faded khakis, a stained shirt, his cracked old aviator...

**47/3,K/29 (Item 5 from file: 483)**

DIALOG(R)File 483:Newspaper Abs Daily

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06481599 SUPPLIER NUMBER: 73561009

**'It was dangerous. That was the point': In 1993, volcanologist Stanley Williams led 16 people up a Colombian volcano. It erupted and nine of them died. Having survived with terrible injuries, Williams presented himself to the world as a plucky hero, but now he is being blamed for the tragedy. He tells James Meek why it was not his fault**

Meek, James  
Guardian, p 2.2

Jun 4, 2001

ISSN: 0261-3077

NEWSPAPER CODE: MG

DOCUMENT TYPE: Feature; Newspaper article

LANGUAGE: English

RECORD TYPE: ABSTRACT

...ABSTRACT: make much sense. Hard hats could have saved lives and his head, Williams admits. He **wears** one on volcanoes now. But it is hard to see how an emergency plan would...

...says. "That guy died. I have to accept that." The post- eruption Williams is partially **deaf**, walks with some difficulty on extensively reconstructed legs, suffers from depression and unreasonable anger, mixes up **words** and is no longer up to scratch in the kind of higher abstract thinking scientists...

47/3,K/30 (Item 6 from file: 483)

DIALOG(R)File 483:Newspaper Abs Daily

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06194552

SUPPLIER NUMBER: 62911756

**Hearing problem no disability on field for field hockey star Bentley  
defender Zraunig steps up this season and shows her prowess on the  
offensive side**

Timanus, Eddie

USA Today, p C.11

Oct 25, 2000

ISSN: 0734-7456

NEWSPAPER CODE: USA

DOCUMENT TYPE: Feature; Newspaper article

LANGUAGE: English

RECORD TYPE: ABSTRACT

...ABSTRACT: in field hockey requires communication. That might make it difficult for a player with a **hearing impairment** to adjust, but not Tara Zraunig. The senior back from [Bentley] (Mass.) is one of...

...game a year or two ago, it was raining really hard and I couldn't **wear** my hearing aid," Zraunig says. "I said to my goalie, 'You're going to have ...

...how to talk to me on the field." PHOTO, B/W, John Quackenbos, Bentley College; **Caption** : Honors: Tara Zraunig was a second-team All-America selection last season.

47/3,K/31 (Item 7 from file: 483)

DIALOG(R)File 483:Newspaper Abs Daily

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05418451

**The future? We're virtually there Ray Kurzweil, a world expert on  
artificial intelligence, reveals his vision of life beyond the  
Millennium, and it's barely human**

Kurzweil, Ray

Guardian, Sec SATURDAY, p 1, col 5

Jan 16, 1999

ISSN: 0261-3007

NEWSPAPER CODE: MG

DOCUMENT TYPE: Commentary; Newspaper

LANGUAGE: English

RECORD TYPE: ABSTRACT

LENGTH: Long (18+ col inches)

...ABSTRACT: normal visual environment, while creating a virtual image, using a tiny laser built into the **glasses**, that appears to hover in front of the viewer. The majority of **text** is created using continuous speech recognition. Most routine business transactions (purchases, travel, reservations) take place...

...face. Pocket-sized reading machines for the blind and visually impaired, 'listening machines' (speech-to-**text** conversion) for the **deaf**, and computer-controlled orthotic devices - 'walking machines' - for some paraplegics result in a growing perception...

47/3,K/32 (Item 8 from file: 483)

DIALOG(R)File 483:Newspaper Abs Daily

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02738919

**Courting a deaf movie audience with caption devices**

Rifkin, Glenn

New York Times, Sec 3, p 11, col 1

Nov 21, 1993

ISSN: 0362-4331 NEWSPAPER CODE: NY

DOCUMENT TYPE: News; Newspaper

LANGUAGE: English RECORD TYPE: ABSTRACT

LENGTH: Long (18+ col inches)

**Courting a deaf movie audience with caption devices**

ABSTRACT: Three technologies that allow **deaf** people to sit in a theater and see a movie's dialogue in **captions** that do not distract the rest of the audience are being tested. One device uses a monitor attached to the seatback, one uses special video **glasses** and one uses transparent plastic panels.

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49/3,K/1 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

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04335842 INSPEC Abstract Number: B9303-7520H-001

**Title:** On the development of a phone communication aid for the hearing impaired

**Author(s):** Kanevsky, D. ; Gopalakrishnan, P.; Danis, C.; Daggett, G.; Epstein, E.; Nahamoo, D.

**Author Affiliation:** IBM Res. Div., Thomas J. Watson Res. Center, Yorktown Heights, NY, USA

**Conference Title:** EUROSPEECH 91. 2nd European Conference on Speech Communication and Technology Proceedings p.303-6 vol.1

**Publisher:** Istituto Int. Comunicazioni, Genova, Italy

**Publication Date:** 1991 **Country of Publication:** Italy 4 vol. (xlili+1510+60) pp.

**Conference Sponsor:** Assoc. Belge Acoust.; Assoc. Italiana di Acustica; CEC; et al

**Conference Date:** 24-26 Sept. 1991 **Conference Location:** Genova, Italy

**Language:** English

**Subfile:** B

**Title:** On the development of a phone communication aid for the hearing impaired

**Author(s):** Kanevsky, D. ; Gopalakrishnan, P.; Danis, C.; Daggett, G.; Epstein, E.; Nahamoo, D.

...Abstract: word, speaker-dependent automatic speech recognizer (ASR)-as a communication device that would allow a **hearing impaired** person to communicate over the telephone with hearing individuals. The usability of this system could...

...issues that could arise as a result of this. These include: How well can the **hearing - impaired** cope with relatively low recognizer accuracy in phone conversation? How does the topic of conversation...

**Identifiers:** **hearing - impaired** people...

49/3,K/2 (Item 2 from file: 2)

DIALOG(R)File 2:INSPEC

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03916734 INSPEC Abstract Number: A91082798, B91047567, C91041709

**Title:** A communication aid for the hearing impaired based on an automatic speech recognizer

**Author(s):** Kanevsky, D. ; Danis, C.M.; Daggett, G.; Gopalakrishnan, P.S.; Hodgson, R.; Jameson, D.; Nahamoo, D.

**Author Affiliation:** IBM Res. Div., Thomas J. Watson Res. Center, Yorktown Heights, NY, USA

**Conference Title:** Signal Processing V. Theories and Applications. Proceedings of EUSIPCO-90, Fifth European Signal Processing Conference p.1179-82 vol.2

**Editor(s):** Torres, L.; Masgrau, E.; Lagunas, M.A.

**Publisher:** Elsevier, Amsterdam, Netherlands

**Publication Date:** 1990 **Country of Publication:** Netherlands 3 vol. lviii+2034 pp.

**ISBN:** 0 444 88636 2

**Conference Sponsor:** CIDEM; CIRIT; IBM; et al

**Conference Date:** 18-21 Sept. 1990 **Conference Location:** Barcelona, Spain

**Language:** English

Subfile: A B C

**Title: A communication aid for the hearing impaired based on an automatic speech recognizer**

Author(s): Kanevsky, D. ; Danis, C.M.; Daggett, G.; Gopalakrishnan, P.S.; Hodgson, R.; Jameson, D.; Nahamoo, D.

...Abstract: authors evaluate this position with respect to using speech recognition technology as an aid to **hearing** for **impaired** individuals. The experimental method combined speech presented in noise with a printed version of the...

... 0%). Some other issues about implementation of the ASR technology in an application for the **hearing impaired** are discussed.

...Identifiers: **hearing impaired** ;  
?